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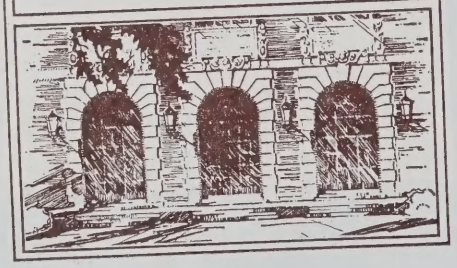

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GARDEN & HOME BUILDER

Beauty Translated into Terms of the Practicable, the Possible;
into Terms of your House, your Lawn, your Garden

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GARDEN & HOME BUILDER

Special Issue No. 1

MARCH 1926
35 CENTS

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Vol. XLIII. No. 1.

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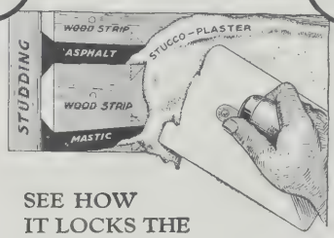

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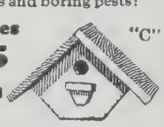 "C"

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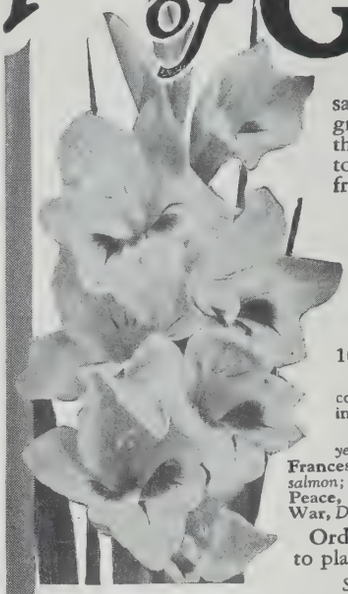

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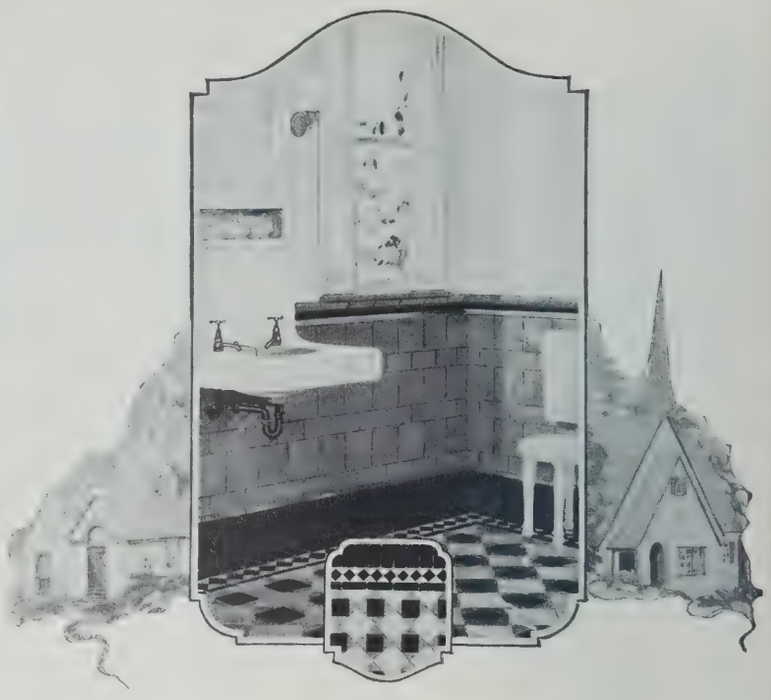

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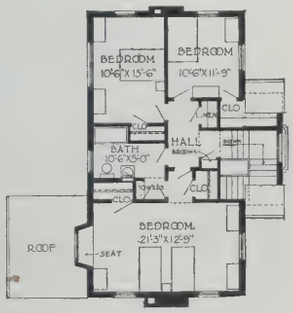

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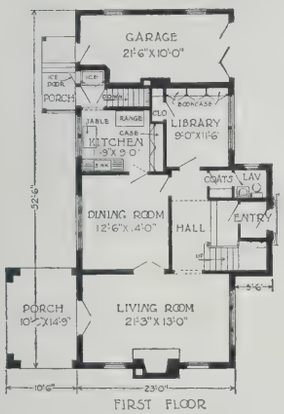

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*Way **ahead** in size, **way ahead** in loveliness of colors, **way ahead** in hardiness **and** the **field-grown** plants we offer are **way ahead** of any procurable elsewhere.*

As to size, flowerstalks 5 to 6 feet tall, carrying flower heads over 2 feet long are quite common. These flower heads are thickly studded with big, thimble-shaped blossoms.

The array of colors is wonderful. They range from white and shell pink through numerous intermediate hues to deepest rose. Many are attractively dotted with contrasty spots—altogether the loveliest creations imaginable.

And the plants we offer are *field-grown*, of size, strength and stamina that only Wayside methods of growing produce.

Extra-heavy plants, 3 for $1.; doz. $3.; 100 for $20.

Lovely Canterbury Bells

The Canterbury Bells are easily among the showiest of hardy biennials for the herbaceous border. They stand about 3 ft. high and, singly or in beds, are always an imposing sight. As illustrated below, the large flowers of some resemble a cup and saucer, others large bells—hence the name.

Extra strong field-grown plants (sure to bloom and satisfy) of the *Pink*, *White* and *Blue* Varieties at the uniform price of **$1.50 per dozen; $10. per 100; $70. per 1000.**

For an ideal combination with Canterbury Bells and Foxgloves plant

The Charming Blue Bird Flower

(*Veronica Longifolia subsessilis*)

The Veronica of "Speedwell" family holds some of the most beautiful flowers equally suitable for Rockgardens or perennial borders. And one of the finest among them is Longifolia subsessilis, with its lovely spikes of bright blue flowers from July to September. Easily one of the handsomest of all hardy *blue*-flowering plants, equally useful as a garden flower or for cutting. For finest effects scatter it in clumps of six or more throughout the hardy border.

Strong, 2-year-old plants, 85c for 3; doz. $2.50; 100 for $15.

Special Combination Offers:—

For the Garden of Modest Size

6 Giant Shirley Foxgloves - - - $1.50
6 each Pink, White, Red Canterbury Bells $3.00
6 Veronica or Blue Bird Flowers - - - $1.25
for **$5.00**

For the Gardener Seeking Massive Effects

18 Giant Shirley Foxgloves - - - $4.50
30 Canterbury Bells, 10 of each of 3 colors $3.75
12 2-yr.-old plants, Blue Bird Flowers - $2.50
for **$10.00**

An Exceptional Catalog FREE

Easily the most comprehensive Hardy Perennial Plant Catalog published. It tells the complete story of the greatest collection and the largest stocks of Old-Fashioned Hardy Plants ever produced in one nursery. And the plants it offers are such as to tell their own story in your garden this very next spring and summer. Please let's get acquainted by writing for this catalog to-day, mentioning this publication.

A bed of Canterbury Bells is a charming sight to behold.

THE WAYSIDE GARDENS COMPANY

Largest Growers of Hardy Plants in America

Mentor Ohio

HOW MANY OF THESE ANTIQUES DO YOU KNOW?

How many of these antiques can you match up with the illustrations above?

Roundabout Chair—1770

Ladle—1760

Betty Lamp - Early Colonial

Carver Chair

Tall-boy—1740

Iron Candle Stand

White Flint Glass—1770

"Hessians"—1776

Sheraton Sideboard

Hurricane Glass Shield 1775

Dolphin Candlestick

Are you interested in Antiques? Here's a book that's clear, concise, informative, handy, and authoritative—as well as fascinatingly written and illustrated.

The New York *Times* says of it: "Nothing could be more appropriate and useful than Mrs. Lockwood's A B C primer of American decorative arts . . . She combines instruction with entertainment . . . It is astonishing, too, how much information is conveyed in such limited space. This result is largely accomplished by the drawings with which the volume is lavishly provided. They are charming drawings, so simple that they serve all the purposes of diagrams."

It's an invaluable book for every American home.

ANTIQUES

By SARAH M. LOCKWOOD

Doubleday, Page & Co., Garden City, N. Y., $3.50

If your bookseller hasn't got ANTIQUES, use this coupon.

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Please send me .... cop.. of Antiques by Sarah M. Lockwood. I enclose $3.60 for each copy ($3.50 for the book, plus 10 cents mailing charges.)

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Landscaping the Prize House

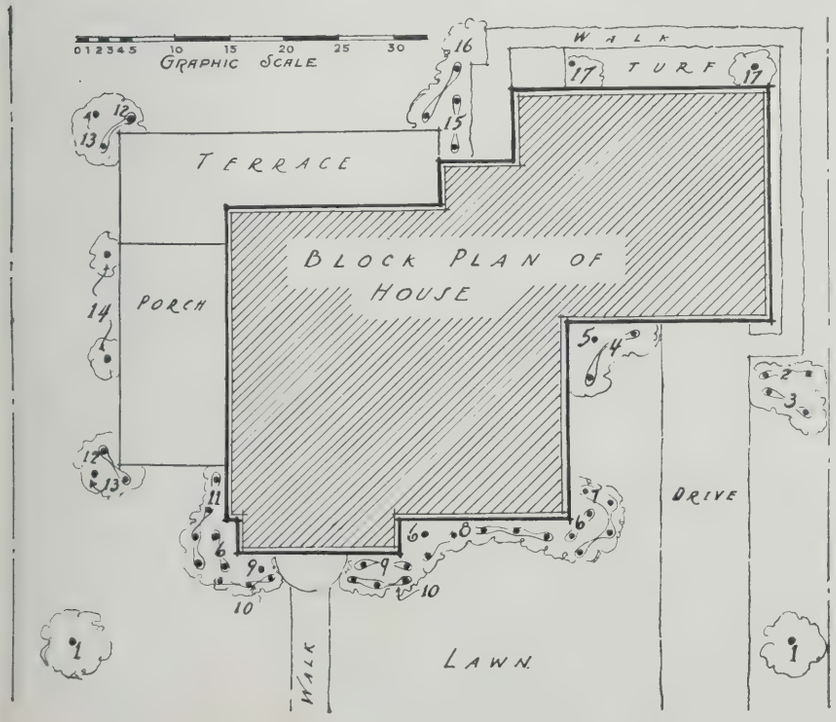
"It's Not a Home till It's Planted"

By STANLEY W. LEONARD

Landscape Architect

This Garden & Home Builder Prize House published in the October, 1925, issue with detailed plans and specifications is an architectural gem. It was designed to cost not more than $15,000 and is adaptable to English Cottage and Colonial styles of architecture. It was designed especially for the garden lover who wants to give full advantage to garden and lawn. Because of these facts these plans are used in this article to illustrate several types of plantings suitable for the Small Home.

The English Cottage



As this house is designed primarily for those who want to build at moderate cost, the planting plans are worked out on the same basis. On the second page of this article are four suggestions for foundation plantings for the Prize House, varying from $23.60 to 144.40, a range which will allow an attractive planting of this plot at several prices.

The simplicity of line in this house, whether of the English or Colonial style, is emphasized by our carefully studied foundation plantings, the contrast in color forms an agreeable change to the light shade in which these houses are generally finished.

Full explanation of this plan with four specifications on following page.

The Colonial Cottage

Elliott Nursery Company, 602 Magee Bldg., Pittsburgh, Pa.

Suggestive Foundation Plantings

Suitable for a Variety of Homes

for $144.40 F. O. B. Pittsburgh

When Ordering Refer Specification "S"

KEY NO.	QUANTITY	
1	2	Colorado Spruce (Picea pungens) 3–4 ft.
2	2	Late lilac (Syringa villosa) strong plants
3	2	Greenstem Forsythia (Forsythia viridissima) 3 Feet
4	3	Japanese Yew (Taxus cuspidata) 4 in. pots
5	1	Hemlock (Tsuga canadensis) 4–5 ft.
6	5	Vanhoutte Spirea (Spiraea vanhouttei). (Also known as Bridal Wreath).
7	4	Pfitzer Juniper (Juniperus pfitzeriana) 18–24 in. spread
8	6	Siberian Arborvitae (Thuja occ. wareana) 18–24 in.
9	3	American Arborvitae (Thuja occidentalis) 18–24 in.
10	8	Globe Arborvitae (Thuja occ. globosa) 12 in.
11	6	Savin (Juniperus sabina) 18–24 in.
12	4	Pyramidal Arborvitae (Thuja occ. pyramidalis) 2–3 ft.
13	2	Pfitzer Juniper (Juniperus pfitzeriana) 18–24 in.
14	2	Spirea (Spiraea trichocarpa). Of superior merit. Introduced from Korea in 1917.
15	2	Hemlock (Tsuga canadensis) 4–5 ft.
16	3	French Hybrid Weigela (Weigela hybrida gracieux) 3–4 ft.
17	2	Starry Mockorange (Philadelphus falconeri) 3 ft.
	75	Running Stonecrop (Sedum stolonifera). A low ground Cover Plant to be planted along border of bed in front of Key numbers 7, 10 and 11.

A $161.20 value specially priced at $144.40

for $38.60 F. O. B. Pittsburgh

When Ordering Refer Specification "A"

KEY NO.	QUANTITY	
1	2	Russian Golden Willow (Salix vitellina aurea pendula) 6–8 ft.
2	2	European Cranberrybush (Viburnum opulus) 3–4 ft.
3	2	Greenstem Forsythia (Forsythia viridissima) 3 ft.
4	3	Snowberry (Symphoricarpos racemosus) 3–4 ft.
5	1	Coralberry (Symphoricarpos vulgaris) 2–3 ft.
6	5	Angelica Tree (Aralia japonica) 3 ft.
7	4	Peegee Hydrangea (Hydrangea paniculata grandiflora) 18–24 in.
8	6	Japanese Barberry (Berberis thunbergi) 18 in.
9	3	Vanhoutte Spirea (Spiraea vanhouttei) 3 ft.
10	6	Dwarf Pink Deutzia (Deutzia gracilis rosea) 2 ft.
11	4	Variegated-leaved Weigela (Weigela rosea variegata) 2½–3 ft.
12	4	Pink Weigela (Weigela rosea) 2–3 ft.
13	2	Red-osier Dogwood (Cornus stolonifera) 3–4 ft.
14	2	Scotch Ros (Rosa spinosissima) 4 in. pots
15	2	Sutzman Mockorange (Philadelphus sutzmani) 3 ft.
16	3	Bushhoneysuckle (Lonicera morrowi) 3 ft.
17	2	Snowflake Deutzia (Deutzia candidissima) 3 ft.
	75	Scarlet Running Stonecrop (Sedum coccineum), a low ground cover plant to be planted along border of bed in front of Key Numbers 7, 10 and 11.

A $42.20 value especially priced at $38.60

(Explanation of Plan on Preceding Page)

The dots give approximate positions for plants; dots to be planted to the same kind of plant are joined together by lines and the group thus made is given a number (the Key number). The number of plants needed and the size of the plants which will be furnished are noted on each Specification. The Common Name is followed by the Botanical Name in parentheses. All Evergreens are Balled and Burlapped (dug with a ball of earth which is wrapped in burlap.) These plans can be adapted to practically every small home. If you will send us First Floor Plans we will make this adaptation for you. A nominal charge of $8.00 will be made for this work.

Specification "S"

For the most part this is made up of Evergreens and therefore provides interest throughout the twelve months of the year. The few shrubs that are specified give color at different times during the spring and early summer. The Running Stonecrop (see last item) provides a "Finish" to this planting which serves to "set it off."

Specification "T"

This specification is made for those houses which "face" to the north and which, therefore, have a northern exposure where the plants will receive but little direct sunlight.

Specifications "A" and "N"

Both of these Specifications are made entirely of deciduous shrubs (those that drop their leaves in the fall.)

A great deal of interest has been provided for in a long succession of bloom. Additional interest is created in the fall and winter by means of the varied bright colored twigs and the brilliant berries borne by a number of these shrubs.

Specification "N" differs from Specification "A" in that I have not used any Ground Cover Plants—the use of a different selection of shrubs helps to bring down the cost of this Specification.

Planting Increases Real Estate Values

It can be said that whatever money is spent in planting a plot increases the value of that plot to twice the amount spent on the plot; viz. $500 spent in planting increases value of plot $1,000

for $30.80 F. O. B. Pittsburgh

When Ordering Refer Specification "T"

KEY NO.	QUANTITY	
1	2	Bronze Golden Willow (Salix britzensis) 5–6 ft.
2	2	Sheepberry (Viburnum lentago) 3–4 ft.
3	2	Bloodtwig Dogwood (Cornus sanguinea) 2½–3 ft.
4	3	Arrowwood (Viburnum dentatum) 3 ft.
5	1	Hemlock (Tsuga canadensis) 4–5 ft.
6	5	Silky Dogwood (Cornus amomum) 3–4 ft.
7	4	Jetbead (Rhodotypos kerrioides) 2 ft.
8	5	Coralberry (Symphoricarpos vulgaris) 2–3 ft.
9	3	Five-leaved Angelica (Aralia pentaphylla) 2–3 ft.
10	6	Snowberry (Symphoricarpos racemosus) 2–3 ft.
11	5	Japanese Barberry (Berberis thunbergi) 18 in.
12	4	Bloodtwig Dogwood (Cornus sanguinea) 2½–3 ft.
13	2	Greenstem Forsythia (Forsythia viridissima) 3 ft.
14	2	Rose Weigela (Weigela amabilis) 3 ft.
15	2	Sutzman Mockorange (Philadelphus sutzmani) 3 ft.
16	3	Bushhoneysuckle (Lonicera morrowi) 3 ft.
17	2	Snowflake Deutzia (Deutzia candidissima) 3 ft.
	24	Japanese Spurge (Pachysandra terminalis) Note:—Japanese Spurge is an Evergreen ground cover plant and is to be planted along the border of the bed in front of Key Number 10.

A $35.15 value specially priced at $30.80

for $23.60 F. O. B. Pittsburgh

When Ordering Refer Specification "N"

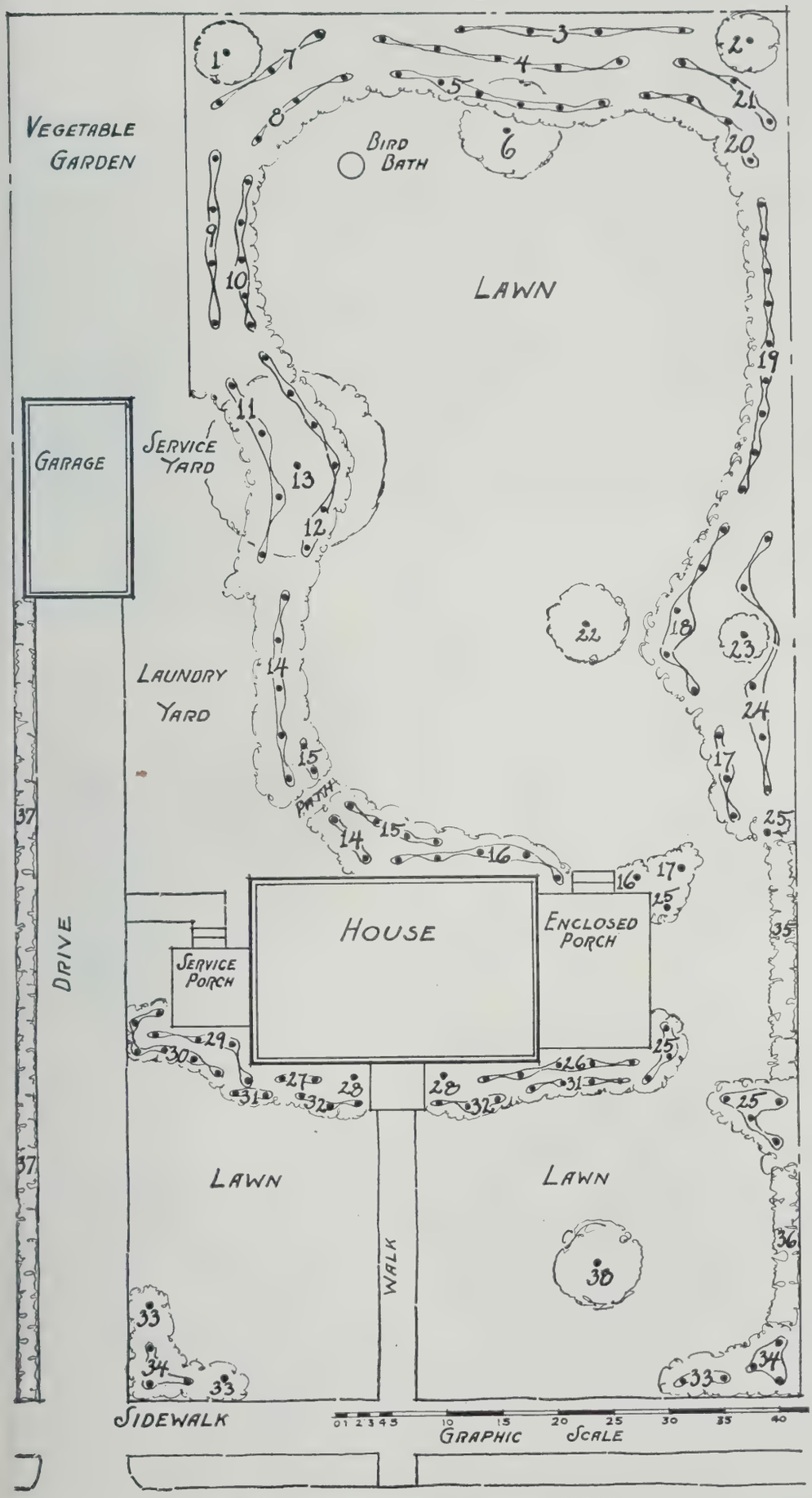
KEY NO.	QUANTITY	
1	2	Bronze Golden Willow (Salix britzensis) 5–6 ft.
2	2	European Cranberrybush (Virburnum opulus) 3–4 ft.
3	2	Greenstem Forsythia (Forsythia viridissima) 3 ft.
4	2	Goldentwig Dogwood (Cornus lutea) 3 ft.
5	1	Coral Dogwood (Cornus alba sibirica) 2–3 ft.
6	5	Vanhoutte Spirea (Spiraea vanhouttei) 3 ft.
7	4	Peegee Hydrangea (Hydrangea paniculata grandiflora) 18–24 in.
8	6	Japanese Barberry (Berberis thunbergi) 18 in.
9	3	Polish Privet (Absolutely hardy; upright growth) 3 ft.
10	6	Spirea Anthony Waterer (Rose-pink flowers; dwarf) 18 in.
11	4	Dwarf Pink Deutzia (Deutzia gracilis rosea) 2 ft.
12	4	Pink Weigela (Weigela rosea) 2–3 ft.
13	2	French Hybrid Weigela (Weigela hybrida Gracieux) 3–4 ft.
14	2	Five-leaved Angelica (Aralia pentaphylla) 2–3 ft.
15	2	Silky Dogwood (Cornus amomum) 3–4 ft.
16	3	Snowflake Deutzia (Deutzia candidissima) 3 ft.
17	2	Starry Mockorange (Philadelphus falconeri) 3 ft.

A $27.75 value specially priced at $23.60

Elliott Nursery Company, 602 Magee Bldg., Pittsburgh, Pa.

Complete Front and Rear Planting

Adaptable to Many Homes



A Colorful Garden

At Low Initial and Low Maintenance Cost

By Stanley W. Leonard
Landscape Architect

THIS suggestion is designed without the use of perennials and roses. It is a type of garden which appeals to a number of people, because of its low first cost and low upkeep, and also the fact that it looks good throughout the year. By careful selection, a long succession of bloom is provided.

Interest here has also been created by use of shrubs having bright colored twigs, and shrubs that produce berries of different color. This plan can be adapted to lots of 65 to 75 feet wide and 115 to 125 feet deep.

It may also be adapted to lots of larger dimensions by adding a suitable number of additional shrubs, but the general layout would remain the same. It also may be used for smaller lots by using a less number of the same variety of shrubs.

Explanation of Plan. The dots give approximate positions for plants; dots to be planted to the same kind of plant are joined together by lines and the group thus made is given a number (the Key Number). The number of plants needed and the size of the plants which will be furnished are noted in each Specification. The Common Name is followed by the Botanical Name in parentheses.

All for $97.80

KEY NO.	QUANTITY	
1	1	Bronze Golden Willow (Salix britzensis) 5–6 ft.
2	1	Russian Golden Willow (Salix vitellina aurea pendula) 6–8 ft.
3	4	Lombardy Poplar (Populus nigra italica) 6–8 ft.
4	5	Big Scentless Mock orange (Philadelphus grandiflorus) 3 ft.
5	6	European Fly Honeysuckle (Lonicera zylosteum) 3 ft.
6	1	Wild Sweet Crab (Malus coronaria) 5–6 ft.
7	3	African Tamarix (Tamarix africana) 2–3 ft.
8	3	Bush Honeysuckle (Lonicera morrowi) 3 ft.
9	4	Sutzman Mock orange (Philadelphus sutzmani) 3 ft.
10	5	Peegee Hydrangea (Hydrangea paniculata grandiflora) 18–24 in.
11	5	Manchurian Bush Honeysuckle (Lonicera ruprechtiana) 3 ft.
12	6	Red-osier Dogwood (Cornus stolonifera) 3–4 ft.
13	1	Salamon's Weeping Willow (Salix salamoni) 2 yr.
14	7	Zabel's White Honeysuckle (Lonicera bella candida) 3–4 ft.
15	5	Douglas Pink Spirea (Spiraea douglasi rosea) 2–3 ft.
16	6	Snowflake Deutzia (Deutzia candidissima) 3 ft.
17	4	Greenstem Forsythia (Forsythia viridissima) 3 ft.
18	5	Pink Weigela (Weigela rosea) 2–3 ft.
19	9	Ibolium Privet (to be allowed to grow untrimmed) 2–3 ft.
20	4	Spiraea trichocarpa (Spirea of superior merit introduced from Korea in 1917) 2–3 ft.
21	3	Goldleaf Ninebark (Physocarpus opulifolius aureus) 3–4 ft.
22	1	Bechtel Crab (Malus bechteli) 3–4 ft.
23	1	Angelica Tree (Aralia japonica) 3 ft.
24	5	Silky Dogwood (Cornus amomum) 3–4 ft.
25	9	Regel Privet (Ligustrum regelianum) 24 in.
26	5	Vanhoutte Spirea (Spiraea vanhouttei) 3 ft.
27	2	" " " " 3 ft.
28	2	Polish Privet (absolutely hardy; upright growth) 3 ft.
29	4	" " " " " " 3 ft.
30	6	Coralberry (Symphoricarpos vulgaris) 2–3 ft.
31	2	Snowberry (Symphoricarpos racemosus) 2–3 ft.
32	6	Spirea Anthony Waterer, 18 in.
33	4	Variegated-leaved Weigela (Weigela variegata) 2½–3 ft.
34	6	Five-leaved Angelica (Aralia pentaphylla) 2–3 ft.
35	18	Japanese Barberry (Berberis thunbergi) 18 in.
36	13	" " " " 18 in.
37	64	" " " " 18 in.
38	1	Sugar Maple (Acer saccharum) 8–10 ft.

A $107.10 value specially priced at $97.80

Perennials or Annuals, if desired, can be used instead of Key Numbers 8, 10 and 20. In case you desire to devote these spaces in flowers, we will furnish the above Specification, minus these Numbers, for $90.60 net.

Elliott Nursery Co.
602 Magee Bldg. Pittsburgh, Pa.

SHRUBBERY BARGAINS

You can set becoming and beautiful shrubs about your home now—
the kind that will lend character and charm—at greatly reduced cost.

ELLIOTT'S are MOVING We don't want to move these shrubs. Buy them from us before May 1st at bargain Prices.

The property at Springdale, Pa., where the Elliott Nursery Company has raised shrubs and plants of sterling worth for thirty-five years, has been taken over by a public service corporation. The new nurseries of the company are at a distance of some thirty miles. The physical burden and expense of transferring the establishment is considerable at best. Naturally, we wish to reduce it as much as possible. Hence the present offer.

Everything listed below is thoroughly desirable and is offered at low cost for the reason only as stated. You may order with the same confidence of satisfaction that the reputation of the Elliott Nursery affords to patrons at all times.

SPECIAL SHRUB OFFER A { Collection of 5 plants each of the following shrubs (50 in all) regular value $23.33 will be furnished for— } ***$18.00***

Special shrub offer **"B"—10 each of following $33.00**

DEUTZIA. Hardy and vigorous with a profusion of pure white or pink tinged blossoms. 50c each; $5.00 per doz.

BRIDAL WREATH, Spirea. Graceful arching branches almost concealed by multitudes of pure white flowers in the late spring. 60c each; $6.00 per doz.

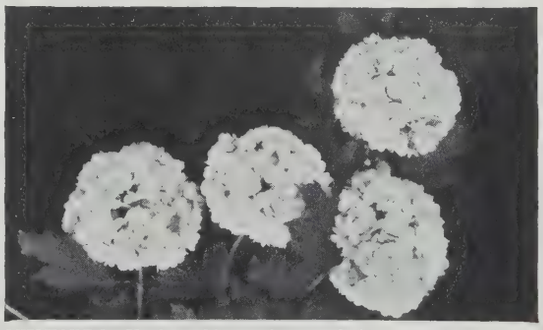
WEIGELA, Diervilla. Masses of pink, white, and red flowers in mid-summer. Probably the showiest and most popular shrub in cultivation. 75c each; $7.50 per doz.

GOLDEN BELL. Forsythia Fortunei. The arching branches are covered with golden yellow blossoms before the leaves appear. 50c each; $5.00 per doz.

BARBERRY, Berberis Thunbergei, Handsome foliage and beautiful red berries. Universally popular as a foundation or hedge plant. 40c each; $4.00 per doz.

UPRIGHT HONEYSUCKLE, Lonicera. A profusion of sweet-scented white or pink flowers in the spring followed by dazzling red berries in midsummer. 50c each; $5.00 per doz.

MOCK ORANGE, Philadelphus. Great clusters of sweet-scented, white orange-like blossoms in the early summer. 50c each; $5.00 per doz.



VIBURNUM. Handsome foliage and masses of white snow-ball like flowers in the early summer. 75c each; $7.50 per doz.

SNOWBERRY, Symphoricarpos Racemosus. Handsome foliage and a profusion of large, pure white berries in the late fall and winter. 50c each; $5.00 per doz.

JUNEBERRY, Amelanchier. Snow-white flowers in the early spring followed by blue or purple fruits. 60c each; $6.00 per doz.

FREE—Elliott's Garden Book for 1926 is bigger, more complete, and more helpful than ever before. It describes hundreds of flower specialties and exclusive introductions for the out-of-the-ordinary garden, and a section devoted to the choicest garden vegetables. The edition is limited. Write for your copy to-day.

Elliott Nursery Co.

602 Magee Bldg. Pittsburgh, Pa.

Entrance to an estate at Jericho, Long Island, showing how gracefully Dubois Woven Wood Fence serves as a screen; yet it is essentially a friendly fence.

No other fence is quite like *DUBOIS*

Made by hand in France of straight, live chestnut saplings, woven so closely that outsiders cannot see through

HERE is the fence for the home owner who doesn't want to be stared at by every passing motorist!

Made by hand in France where it has long been used to shelter from view those charming private gardens or estates bordering public highways, Dubois is unique among fences in America today.

It is as effective in keeping people from looking in as a solid wall; and more so than a hedge, which always takes time to grow.

Adds Unusual Beauty

In addition to its talent for insuring privacy, Dubois lends beauty wherever used. Gray brown in tone, the saplings blend with any type of architecture as readily as do fine shade trees. The effect is to give quaint, rustic charm to every setting.

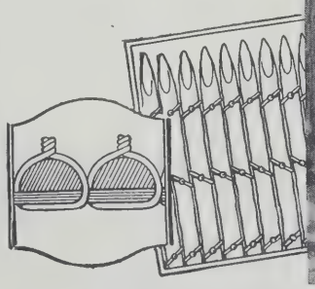
Dubois comes in 5 foot sections, in two heights, 4′ 11″ and 6′ 6″, and requires no skilled labor to put up. Once erected it will last a lifetime. It requires no paint, or maintenance expense.

Moderate in cost, it is by far the most economical way of artistically fencing an estate or yard, or screening unsightly views.

Many Uses for Dubois

Originally used on large estates, Dubois Woven Wood Fence is now found in many suburban communities where its talent for screening service yards or unsightly vistas is especially appropriate. It is also being used by many city residents who recognize its possibilities for transforming neglected backyards into attractive gardens. Robert C. Reeves Co., 187 Water Street, New York.

An effective way to escape from the world that passes by your door.



The straight, live chestnut saplings are skillfully bound together with strong, non-rusting wire, looped over horizontal cross braces.

This new portfolio illustrating the many charming effects to be obtained with Dubois will be gladly sent you free on request. Simply mail the coupon below.

DUBOIS Woven Wood Fence

Robert C. Reeves Company, the largest Wooden Fence distributor in the United States, is headquarters for all types of wooden fencing, from quaint, rustic designs of decorative character to the very heavy hurdle fences for farm use, as well as wire fencing. Among the various domestic and imported fences carried in stock and available for prompt shipment are:

Reevshire Hurdle Fence *Post and Rail Fence* *Portable Post and Rail Fence*
Cleft Chestnut Fence *English Wattle Fence*

(Descriptive literature and prices of each gladly sent on request. Use the Coupon.)

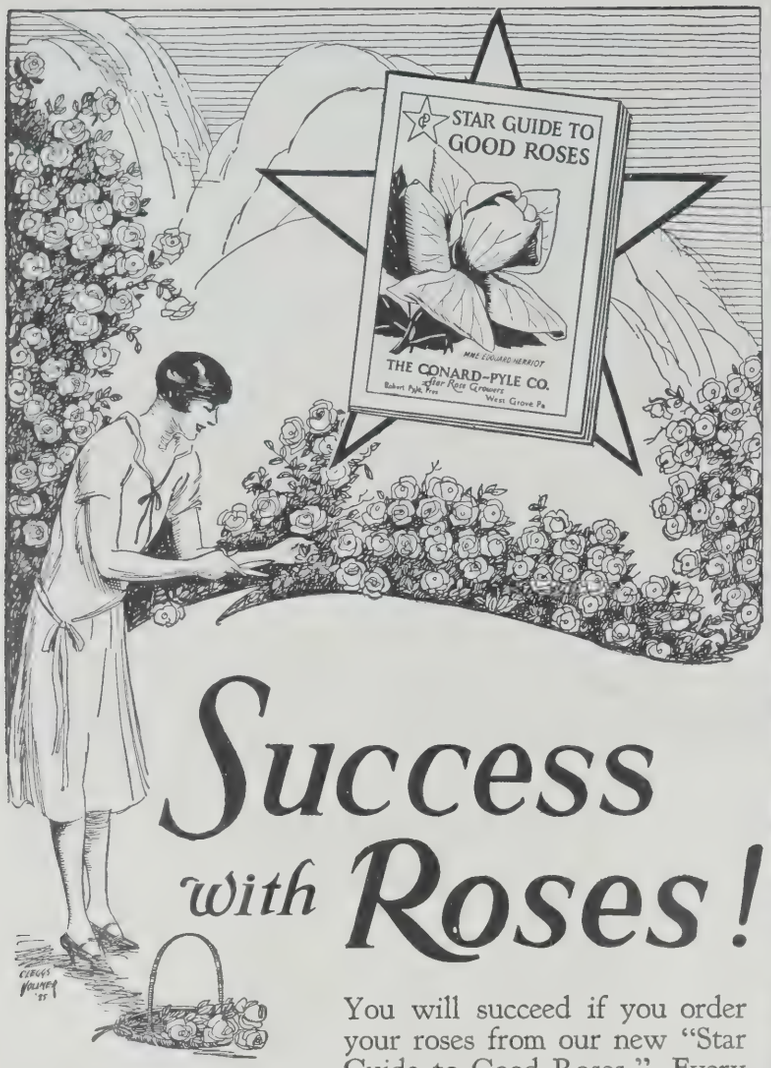
ROBERT C. REEVES CO., 187 Water St., New York
Please send, without obligation, your new portfolio illustrating the many interesting ways *Dubois* is being used.

I am also interested in your _____ (mention any special fencing)

Name _____

Address _____

City _____ State _____ 34



Success with Roses!

You will succeed if you order your roses from our new "Star Guide to Good Roses." Every Star Rose is guaranteed to bloom. Mind you, it isn't the guarantee that makes the roses bloom, it's their sturdy strength that lets us guarantee Star Roses!

This new "Star Guide" has 100 absorbingly interesting pages, and shows 18 roses in their natural colors. The "Guide" describes and illustrates the best roses in America today, the ones chosen by experts. It pictures and describes the famous "Star Dozen" and devotes two pages to some remarkable *special offers*, new this year!

After you have read this year's "Star Guide" you will know that we are not only selling rose plants, roots and branches—we are selling rose joy and the satisfaction of perfect blooms!

Write today for your "Guide," and enjoy rose reading such as you never had before!

THE CONARD-PYLE COMPANY
Star Rose Growers • Box 24 • West Grove, Pa.
Star Roses bloom, or money is refunded

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West Grove, Pa.
I am interested in knowing how to choose the right roses for my garden. Please send the "Star Guide to Good Roses."

Name.....

Address.....

A CROSS-ROAD AT ROSEDALE

Specimen Evergreens Can Be Safely Moved When the Root Systems are Right

ROSEDALE EVERGREENS have a reputation for thriving on the grounds of our customers. Because of frequent transplanting, they develop heavy masses of roots close to the trunks. Because our soil contains just enough of clay, the root ball stands moving without breaking away from the rootlets. These factors, together with freedom from disease and insect pests, assure the success of Rosedale Evergreens. Your choice of 77 varieties in sizes up to 25 feet.

A RIOT of ROSES

Nothing adds so much to cottage or mansion as a riot of Roses in varying hues. Our heavy, two- and three-year plants are grown on hardy multiflora stock, and wintered out of doors. Planted in April, they will bloom freely this Summer.

We offer Hybrid Teas that bloom and bloom, lovely Rugosas, Climbing Roses and Trailing Roses. Send your order now. The Plants will be held dormant until planting time when they will be carefully packed and promptly shipped. We use great care in filling orders accurately.

A New Order from a Customer Who Now Has 800 Rose Bushes

Gloversville, N. Y.
Oct. 29, 1925.

Mr. S. G. Harris,
Rosedale Nurseries,
Tarrytown, N. Y.

My dear Sir:

Relative to the Roses received from you last spring I cannot speak in terms high enough.

As to the rootage, general appearance and the wonderful blooms from them June, August and September, it was beyond anything I have ever seen. I picked from them as late as October 22nd a very beautiful collection.

The order which I now enclose for next spring for 181 plants, I know will be equal in vigor to those I have received from you.

Very respectfully yours,
(signed) A. C. Saunders.

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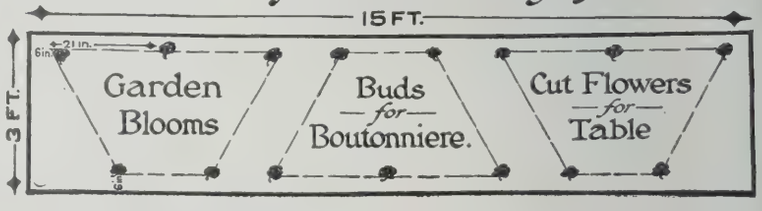

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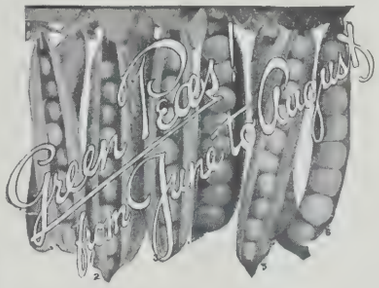

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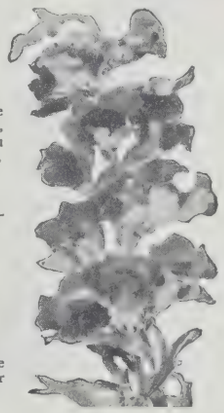

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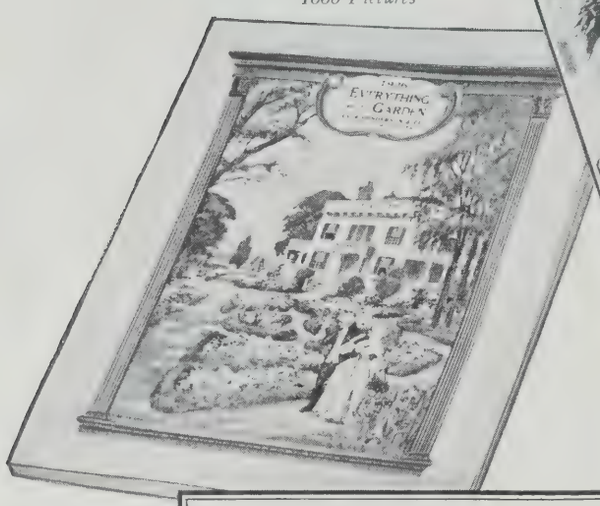

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GARDEN & HOME BUILDER

MARCH, 1926

LEONARD BARRON, Editor
LUCY E. HUBBELL, Associate Editor

Volume XLIII, Number 1

The Home-Maker's Idea Book Comes in April

FACTS and figures the home-builder ought to know! How to select doors and windows of the sizes made for stock by the planing mill; floor joists and rafter sizes; fireplace flues and concrete mixtures: all these essential bits and many more are discussed authoritatively by Henry H. Saylor. "Thoughts Upon the Problems of Young People About to Furnish a Home" is the way Ruth Robinson Tregenza, of the Department of Home Decoration at Teachers College, describes her very illuminating article on the elementals of decoration. Ellen D. Wangner's "Built-in Furniture" includes many of the new articles of permanent furniture, and contributes a modern note to our home-maker's idea book, a manual to follow in 1926.

THE word "home," however, includes the surroundings quite as definitely as the house itself, and Arthur H. Carhart in his "Garden Lines" emphasizes the importance of the initial plan of the garden layout, following up and going one step beyond his illuminating "skeletons" that pleased so many readers. In "Gladiolus Fashions" Dr. Forman T. McLean has picked out the outstanding introductions that mark the present pinnacles of achievement in their particular lines—and set standards from which a new variety can be scaled or measured by

contrast and comparison. In April the Garden Club of America is holding its annual convention at Santa Barbara—and many of our readers who are unable to make the trip will enjoy the photographs of the Santa Barbara gardens which we are presenting in our next issue.

And in April we hope to announce the winner of the GARDEN & HOME BUILDER PRIZE OFFER HOUSE contest—the $500 which was offered for the first completely told and illustrated account of the construction of our specially designed house, plans and drawings of which appeared in the October, 1925, issue.

WITH the coming of April and spring, home-keepers' thoughts turn to new furnishings and fittings for the dining room, and in our Hearthstone Editor's Chat we shall tell of the new linens and silver, colorful china, and sparkling glassware. Accompanying the article will be an especially helpful list of booklets to gladden the heart of every home-maker. That our Hearthstone Editor's chat is filling a definite need has been shown to us in whole-hearted fashion by the numbers of requests for booklets which have come pouring in by every mail. We know beyond a doubt what it has meant to our readers.

Readers' Service Department

Help will gladly be extended to any one desiring information on garden planning, home building, community planting, and other topics discussed on these pages or of special interest to readers. It will expedite matters if inquiries are sent direct to the Editors of GARDEN & HOME BUILDER, Doubleday, Page & Co., Garden City, N. Y., and accompanied by stamped addressed envelope for reply.

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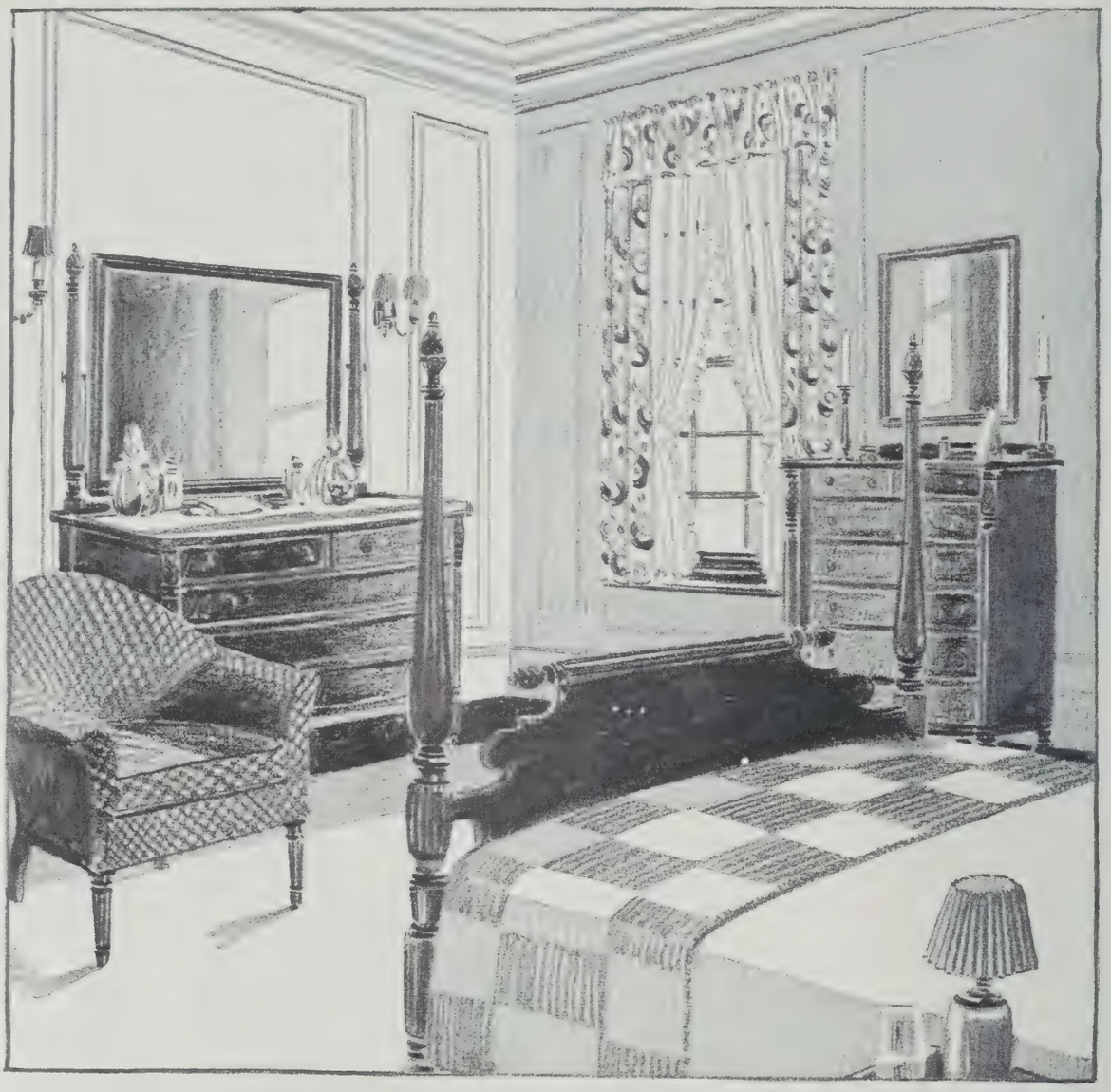

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GARDEN & HOME BUILDER

Vol. XLIII, No. 1 MARCH, 1926

News & Comment

THE 4th annual National Garden Week celebration is the week of April 18 to 25 (in California March 2–7) and the occasion concerns every reader of GARDEN & HOME BUILDER. This is an event over which we feel (excusably we hope) some little pride, and automatically every reader of this magazine is a participant. Three years ago we conceived and initiated "NATIONAL GARDEN WEEK." The idea was projected on the broadest possible lines so as to include the greatest number of active organizations—churches, schools, welfare associations, the boy scouts, the girl scouts, village school boards, business men and women as individuals and as associated together in clubs or groups, boards of trade, chambers of commerce, newspaper writers, editors, magazines, etc., etc. All these were brought into association and lent their material aid in a constructive, active program for the foundation of National Garden Week.

THE inception of National Garden Week was the outcome of a nation-wide survey made by this magazine, which suggested the need of uniting all the multitude of diversified activities that in one way or another touched upon the greater activities that centered in and around the garden. It was shown that there were numerous garden organizations at work individually in different parts of the country, and that some in remote places had passed into a stage of quiescence although there were still opportunities for action all around them. There seemed to be a need of some cohesive influence or machinery that would not in any way influence or interfere with their operations but which would act as a clearing house or a connecting channel through which each one could be brought in touch, if it so desired, with all others.

NATIONAL GARDEN WEEK was planned in order to insure simultaneous attention all over the country to the greater opportunity that was meant by the word "garden." It is hardly necessary to emphasize the immense boost that would be given to garden activities when everybody would be thinking unitedly of these possibilities, and not alone from the standpoint of beauty for the individual yard and lawn. No town is ever lovelier than its poorest section and not only is a community responsible to each citizen, but the reverse is also true, viz., that each citizen must realize his own responsibility to his community. He is an important individual. If all citizens focus their thoughts on the higher ideals of all that the garden implies, the community must be the better for it.

THREE years ago this National Garden Week was launched. To-day with the approaching fourth anniversary we can look with delight, and we hope with some satisfaction, (and so at the same time with due modesty) on all that has been accomplished. The first step was to lay the scheme of a national movement before the executive board of the General Federation of Women's Clubs because of the machinery that it had at command and the fact that gardening was very strongly identified with women's activities. The suggestion was unanimously adopted and has been wholeheartedly supported ever since by this splendid organization. President Harding and President Coolidge each gave their endorsement to the activities of National Garden Week. Governors, educators, and people prominent in various walks of life all over the country rapidly came into line. The garden activity became a nation-wide impulse.

ALL this achievement has not been without a considerable amount of work conducted in the offices of this magazine. Many thousands of printed programs, and leaflets of one sort or another have been sent out under the seal of the National Garden Association. The campaign of this association has been carried on very largely through the activities of this magazine. We have provided constitutions and bylaws for new clubs in almost every state of the union, to say nothing of lending a helping hand to overseas activities; and there is some little feeling of pride in the fact that we have been able to help organize garden clubs overseas in China, Hawaii, and Australia.

FEW people perhaps realize the largeness of the garden club movement. Working through the National Garden Association in the way just outlined, this magazine has lent aid in establishing 503 garden clubs. The real record cannot end here because there are others who followed the lead without coming into actual contact. The total volume of correspondence has amounted to more than ten thousand letters connected with plans for National Garden Week, or general club work, and in giving advice on practical garden problems.

Different members of our organization have carried their mission into the air and during this entire time a regular garden program has been given over the large New York radio station WEAF once each month. They have also been instrumental in helping the making of a motion picture film of the bulb fields of Holland.

THIS SEASON'S BIG SHOW

THIS is the season of the big flower shows —foretastes of what the summer will bring. New York will see its thirteenth annual event March 15th to 20th, a combination effort of the local Florist Club and Horticultural Society with the Garden Club of America coöperating. Opening two days later, March 17, the Massachusetts Horticultural Society announces a big event with some new slants in exhibition methods—large mass displays of particular plants that should be interesting. There will not be any National Flower Show this year—the projected visit to Minneapolis-St. Paul being abandoned. An invitation has been extended by Chicago for the year 1927. The American Orchid Society will hold its annual gathering this year in connection with the New York flower show.

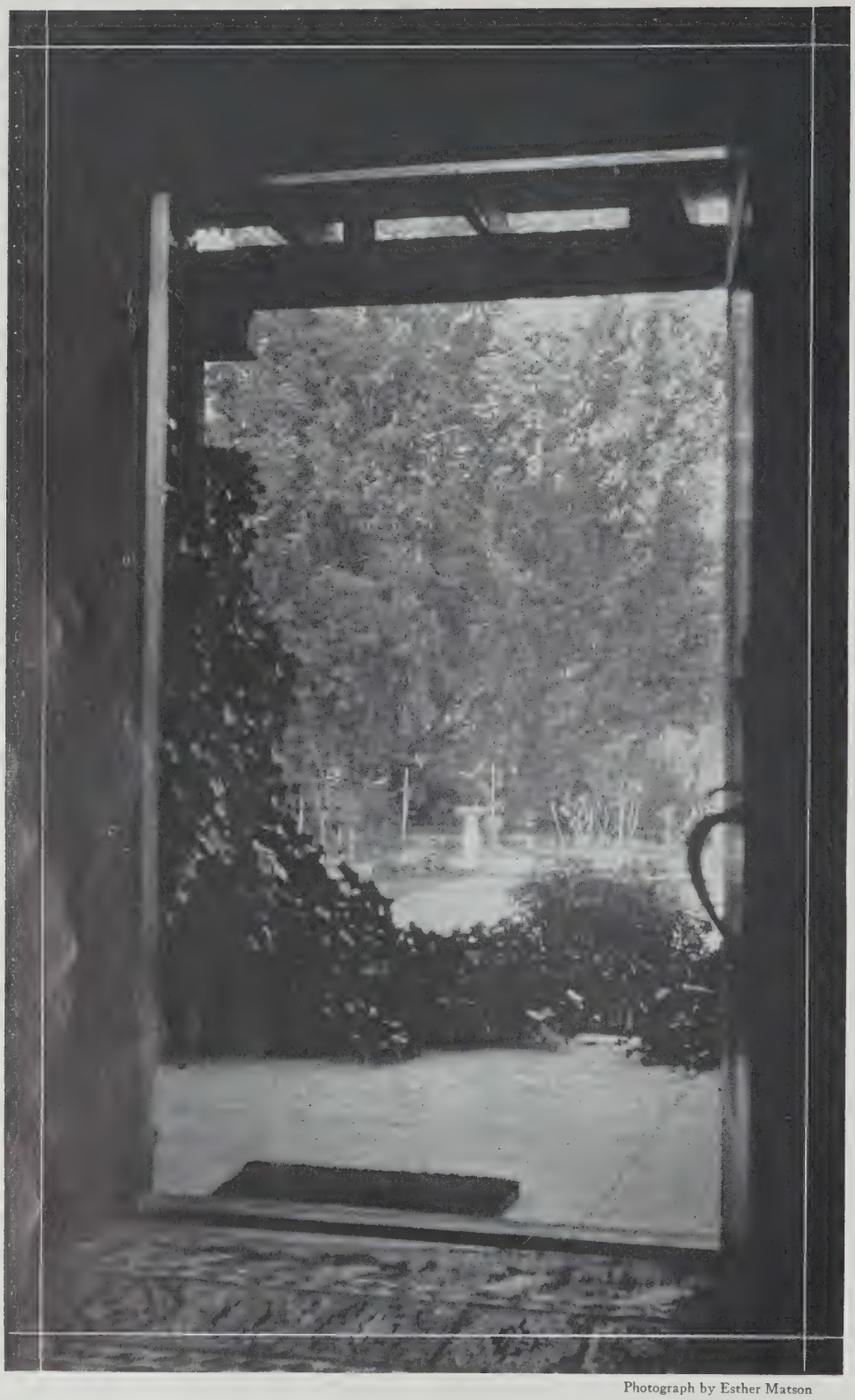
THE A. A. A. S. ELECTS DR. BAILEY

PROF. L. H. Bailey, than whom no one is better known in the whole world of horticulture, has won from the scientific world of America the signal honor (the greatest gift indeed that it has to confer) of being elected President of the American Association for the Advancement of Science.

This is the first time that horticulture has been so honored and it comes as the fitting crown of a great career. Scientific horticulture is well established to-day in our colleges, and is all the outgrowth of Dr. Bailey's vision—for he was the first to isolate horticulture in our educational institutions.

We learn of an inadvertent credit given to the picture on page 251 of our December, 1925, issue. The photograph really pictures the garden of Mrs. John R. Holman, 170 Parkside Lane, Portland, Oregon. We regret that we should have been misinformed.

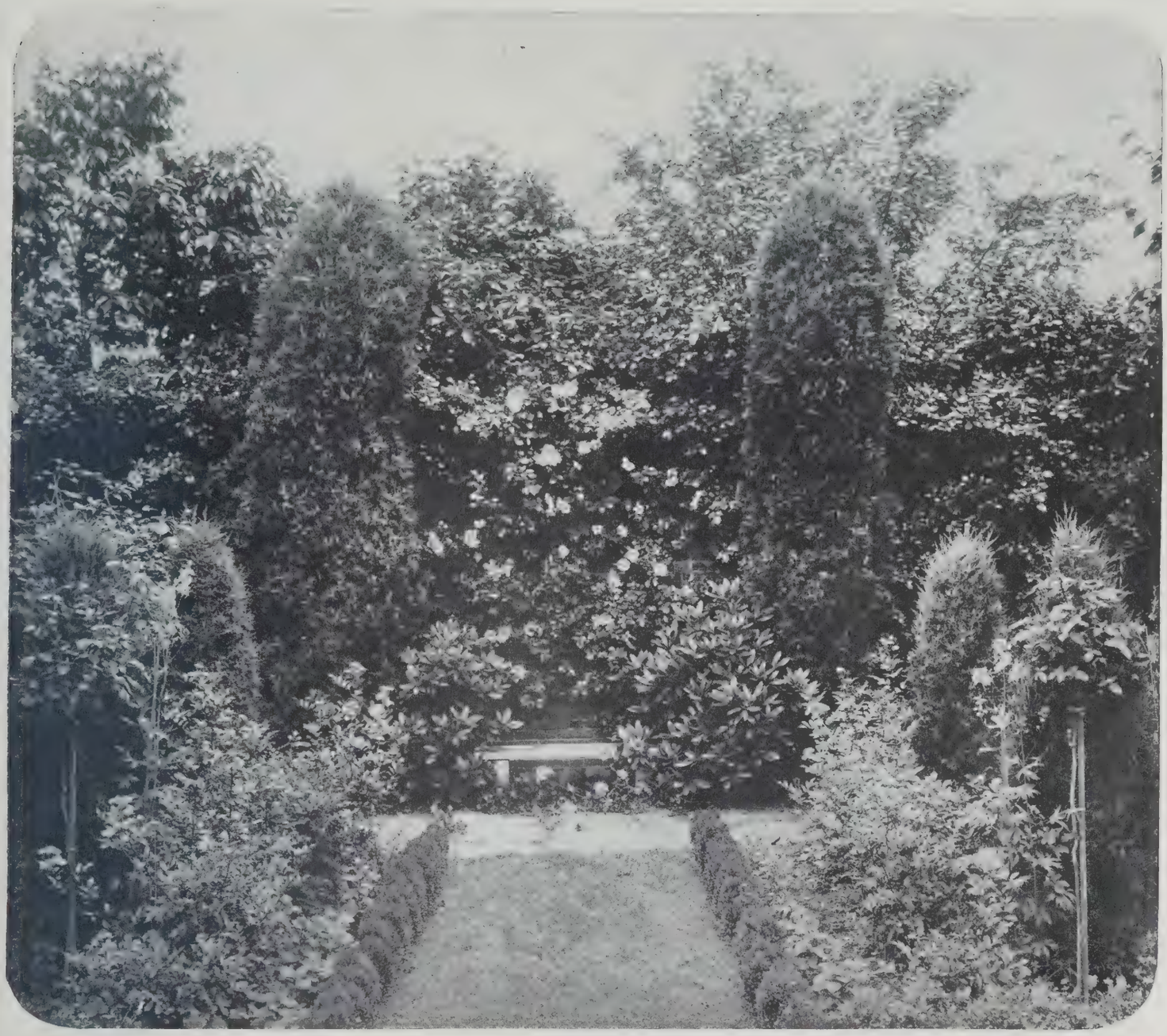
William Rickatson Dykes, M.A., Secretary of the Royal Horticultural Society, author of that monumental work "The Genus Iris," published in 1913, "Handbook of Garden Irises," and "Irises," died in December, as the result of a motor accident. This is a distinct loss to the horticultural world for Mr. Dykes was a young and very able man.



Photograph by Esther Matson

The pleasant association of the garden seen across the threshold from the garden door is much enhanced by the seemingly careless artistry that used the English Ivy to carry the feeling of receding planes. A Pasadena home

"Some open at once to the sun and the breeze
Some lost among bowers of blossoming trees."
Percy Bysshe Shelley

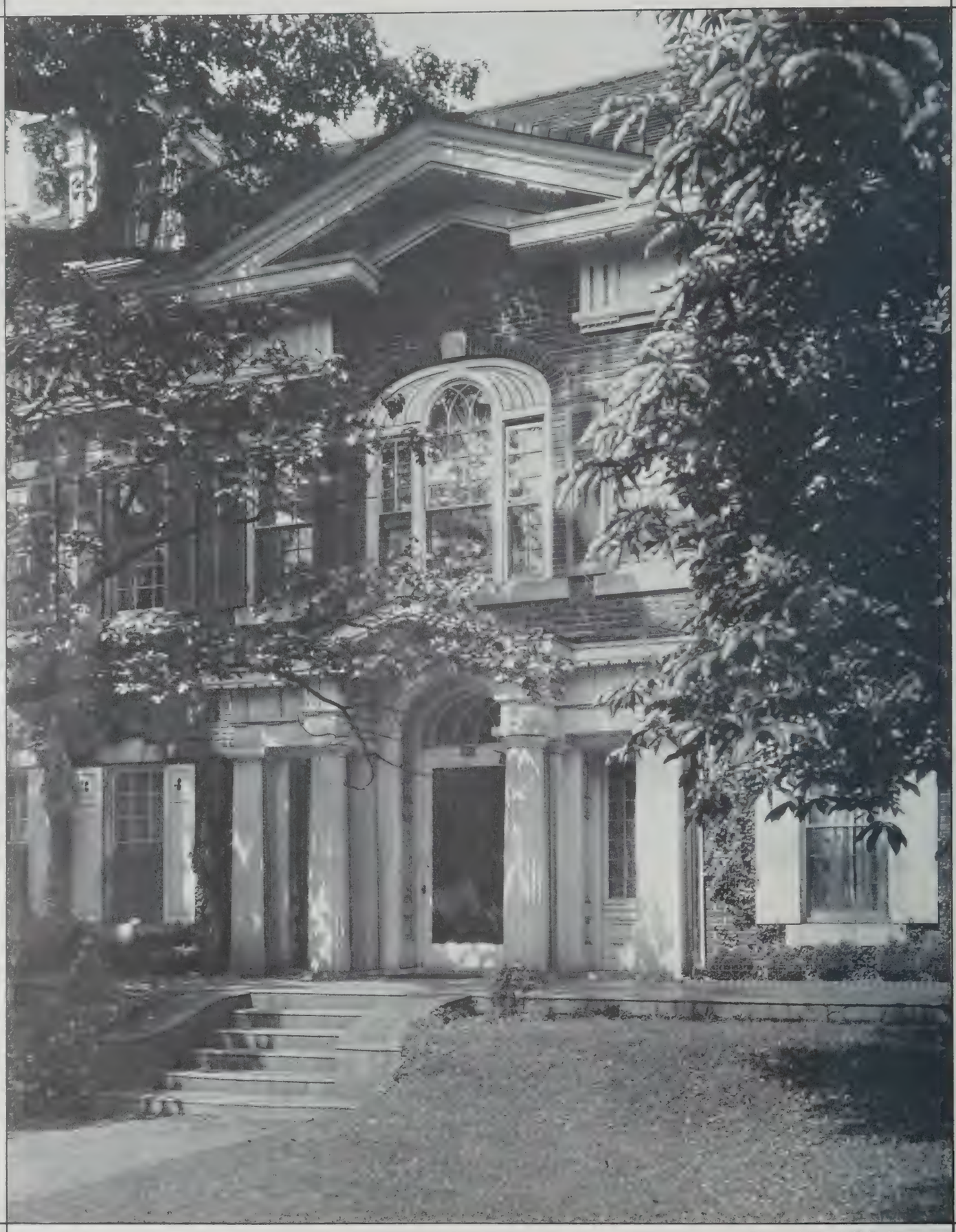


Photograph by Mattie Edwards Hewitt

"A fair white rose sedately grows
Within the garden wall."
William Lindsey

SIMPLE AND EFFECTIVE TREATMENT FOR ANY LITTLE GARDEN

The seat is a good terminal to the central axis and the perpendicular notes of accent given by the Cedars carry the necessary elevation and scale in the mass. Box edges the beds where standard Roses and herbaceous perennials abound. Climbing Roses trail over the wall, Rhododendrons flank the seat, and these with the Cedars and Box carry animation through the winter season. Home of Mr. Isaac T. Starr, Laverock, Pa.



Photograph by Tebbs & Knell

"In the wealth of the wood since the world began
The trees have offered their gifts to man."

Henry van Dyke

The rich harmony of wood and brick which speaks to us in the language of a passing age. Home of Mr. G. H. Andrews, Raleigh, N. C., J. M. Salter, Architect

The home of Mr. Donald Love at Wynnewood, Pa. (S. Arthur Love, architect)

IN A LITTLE HOUSE BUILT FOR TWO

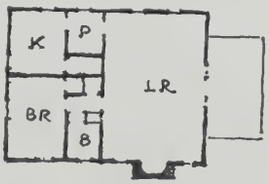
HENRY H. SAYLOR

Sketch plans by the author. Photographs by Philip B. Wallace, and by Tebbs & Knell

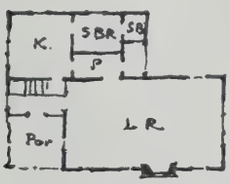
Practical Economy of Building to Meet Actual Needs Rather Than Waiting for Developments

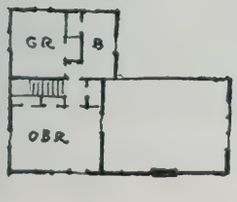
MOST of us keep looking forward to the time when we shall build the house of our dreams. It will not be to-morrow nor even this year but someday. . . . We nod our heads in solemn agreement with Cato when he says of the master of the household, "As for building, he must think a long time about it." But the great Roman censor wrote this some two hundred years before Christ, so, even at the risk of being thought modern, I venture to remark that the master of the household usually thinks for too long a time about this matter of building. In fact, he spends so much time in thought that, by the time he can build, his needs and his desires have so altered that the problem must needs be thought out all over again. He struggles along through the busiest part of his working life, accepting all the inconvenience and handicap of a misfit house; then when he has earned enough to build what he wants, he is too old to get from his home all that it should bring him. To cap the matter fittingly, he dies from overwork —or over-thought—and leaves his widow and children a white elephant.

It is a not uncommon thing for a man and his wife to arrive at the fork of the road pictured to me recently by a friend of mine. All through his early married life he has lived in a house that was not at all to his liking, meanwhile saving money against the day when he could build the house of his dreams. That day has now arrived, he told me, but the children have grown up in their makeshift home. The girls will shortly be marrying; the

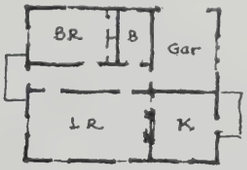


All on one floor and reduced almost to the bare necessities. The pantry could be used as a little dining room for two

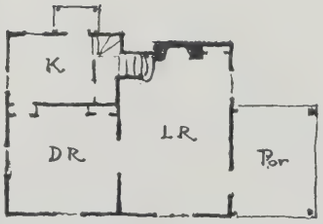




Most of the living room extends up through both stories—a sort of studio scheme. A lattice window opens from the owner's bedroom into the upper part of the living room.

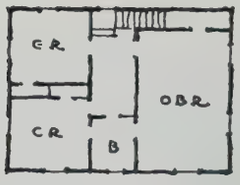


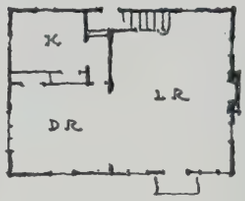
A single story plan incorporating a garage. This comes pretty near being the least expensive way of securing the fundamental basis of a home



The story-and-a-half plan reduced to a simple form by omission of an entrance hall. A third bedroom could be secured by dividing the owner's room.

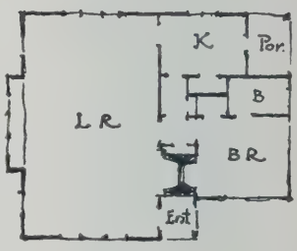
The home of Mr. Douglas Wallace, Country Club District, Kansas City, Mo., (R. C. Hunter & Bro., architects). A particularly charming entrance, under its own little gable, lends distinction





A two-story scheme that provides a child's room and guest room, with the space ordinarily used for an entrance hall thrown into the living room

A bungalow that might be made to serve without a regular heating plant, depending temporarily upon the two fireplaces and a gas or oil cook stove in the kitchen

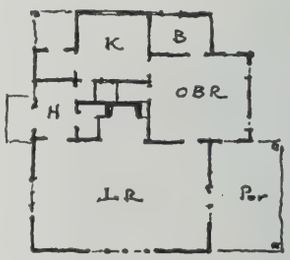


boys leaving home to establish their own households. The house of his dreams must undergo radical changes in plan and size in the face of these conditions—and it cannot be built at all until they materialize.

All of which bears out my contention that the young man should spend less time in thinking what sort of a house he will have and more energy in building at once to meet his immediate needs. Once established in a home of his own making, which he can improve and make more beautiful with an enthusiasm never to be aroused by any rented house, the future's needs for expansion will easily be met.

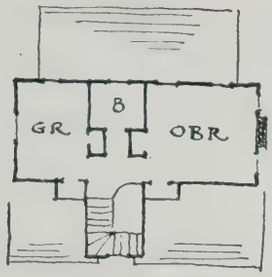
Our forefathers did this. Most of the lovely old homesteads of early America had their humble beginnings. The wings and ells and lean-to additions were added as the size and needs of the family grew. Originally most of these houses were extremely small, with very few rooms and lacking all of the comforts that we of to-day consider absolute necessities. Not only was the plumbing conspicuous in its absence; the open fireplace was the sole weapon against the rigors of a New England winter, and what wood one burned one had to cut; the light of oil lamps and candles was a feeble illumination as compared with gas and electricity. There was no near-by butcher, baker, or delicatessen store at which food supplies could be quickly secured ready to cook or to eat. The householder of that day had to have something else to take the place of these things—and he had it in good measure: its name is self-reliance.

One of the greatest obstacles to-day in the way of our having our own home is purely mental. We count as absolute necessities many things without which we could live comfortably and self-respectingly if we but realized it. If we put aside, for the moment, the thought of what our wealthier neighbor has, or what our friends may think we ought to have, or what our caste tradition says we should not be without, we could make a list of the actual elements needed to make up the nucleus of our home. Other rooms, other conveniences can be left to the future; the essential thing is to establish our homestead

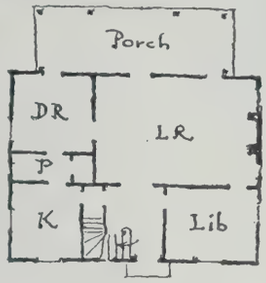


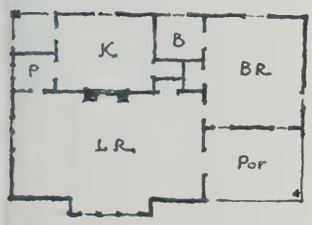
A one-story plan that has an entrance hall. The angle permits the use of a single chimney for living room fireplace and kitchen range

The home of Mr. C. W. Adams, San Antonio, Texas, (Adams & Adams, architects). A convincing refutation of the common belief that the Mediterranean styles are adaptable only to houses of large size



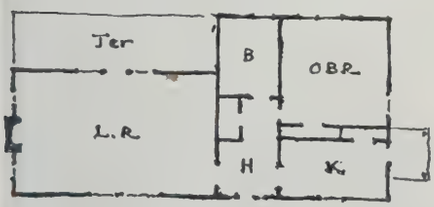
A story-and-a-half scheme that might first be built with the attic unfinished, using the dining room as a bedroom and the pantry as a bath, the library serving as a dining room or guest room.





A bungalow plan in which the main entrance, though opening directly into the living room, is sheltered by a porch under the simple main roof

A central-hall one-story plan in which the meals are prepared in the kitchen, put upon a tea-wagon and wheeled across to the living room to be eaten



The home of Mr. E. L. Jackson, Dallas, Texas, (Thomson & Swain, architects). The small home built in enduring materials; even the dormer is of brick

early, at the outset of the family life. With that one vital factor secure, it is one of the never-ending wonders of the world how fast it grows in beauty and comfort and convenience. There is little incentive for a man to improve a property that belongs to another; there is every incentive for him to make each spare minute, every spare sheckel, every constructive thought contribute to the development of that home which is his very own.

The hardest thing to do is to keep that list of essential requirements down where it belongs. The thought, "While we are building it would cost very little more to have this," is one of the most tempting of many paths that deviate from the straight and narrow road. Another one is the thought, "By building of cheaper materials we can get more of a house," Command these thoughts to get behind you whenever they rear their heads.

On the other hand, measure every plan you make with two additional measuring-sticks: the first, "Is it of such a material and quality as to require little in the way of maintenance and repair?"; the second, "just how can this be expanded economically and suitably when the need arises?"

Another home, that of Mr. J. C. Shapiro; (Van Brunt & Hertz, architects), in the Country Club District, Kansas City, Mo., of the type that might be started in part and added to as circumstances permit

IN THE magazines one occasionally finds the plans for a house that is designed to be built in several stages. The first stage contains only the bare necessities; the second, additional space for the children's needs, and so on. It is unfortunate that there are not many more such plans published; they are rich in suggestions as to how, for example, a first bathroom and bedroom on the first floor may later become pantry and dining room, without the necessity for radical change in the plumbing stacks.

One way to go about devising such a plan is to sketch out the dream house in full, allotting space on the first floor to all the rooms one will ever be likely to require there. Then make a tracing of the first story outside wall and fill in the second story requirements, with full consideration of the stairways and means of inter-communication. When the ideal

has been achieved, begin to lop off the sections that are not absolutely needed now. Try concentrating the whole two stories in the ground floor plan, putting the bedrooms and a single bath into space that will later be needed for other purposes, with the thought that the whole roof could then be raised and the second story completed as originally planned. Or, possibly the second story space may be left unfinished and undivided for the first stage. The problem is not an easy one—it is one of the hardest an architect can be called upon to solve—but there is always a way out by sacrificing the thing that is at present desirable in favor of that which dovetails into a rational scheme for later expansion. And there remains the reward of a very definite pleasure of anticipation.

Out of the mass of things that will need to be remembered when planning the little house for two are several that might possibly be overlooked if they are not kept in mind.

A house of rather moderate size at Wynnewood, Pa., in which the architect, Richard A. Kerns, Jr., has increased the general mass by bringing out the stone end walls to enclose a porch and by adding the garage as a wing

The kitchen can be almost unbelievably small, provided it is well planned and equipped with modern labor-saving devices—remember the Pullman dining car kitchen.

The dining room can easily be spared. Thousands of apartment house dwellers have proven it. Put the space into a really adequate living room.

Hall space is waste space; in the small plan it is extravagance.

Closets twenty inches deep are big enough to take a pole and clothes hangers. More depth is waste.

Most rooms in country and suburban houses have more windows than are needed or used, and windows cost more than wall space.

A fireplace in the living room is more to be desired than two guest rooms.

Copper for flashing and rain leaders is a real economy over the cheaper galvanized sheet steel.

Spans that call for joists longer than fourteen feet increase rapidly in cost as they lengthen.

Use stock sizes of doors and windows and stock moldings throughout; they are always less expensive and seldom less beautiful.

Pick your builder by his character rather than by his competitive prices.

But first and most important of all, stop paying someone else a rent that might be building your own home.

The Rose as a House Plant

JOHN A. WHITE

THE only Roses that are likely to succeed when grown in the window garden are a few varieties belonging to the Tea, Bourbon, and Bengal classes. And to have them do well in the winter it will be necessary to commence preparations early in the spring, in order to have strong and healthy plants furnished with an abundance of healthy working roots, for the Rose is rather impatient when grown as a window plant.

Having procured the young plants in the spring, pot into three-inch pots, and place in a warm, sunny situation. Give water when required and air on all favorable occasions. About the middle of May the plants can be potted into four-inch pots and plunged to the rim of the pot in any sunny spot in the open ground. After the plants are plunged mulch well with coarse stable manure, and water whenever necessary. The very instant any flower buds are noticed remove them! The pots should be turned at least once a week, in order to prevent the plants from rooting outside the pots. This treatment is to be continued up to the first of September, when the plants are taken up, examined, and shifted into larger pots if necessary, trimmed into shape, and placed in a sheltered situation until they are brought inside, which should be done before cold weather sets in if they are intended for early blooming. Those intended for later bloom may remain outside until the weather becomes cold, when they can be removed to a light, cool cellar, and afterward be started into growth whenever it is deemed necessary to do so.

When brought inside give a light, sunny place, a window having a southern exposure being the best of all, and an average temperature of 50°. At night, water as often as necessary, and two or three times a week give weak liquid manure water. In watering, take care not to render the ground cold and sodden, and water should never be permitted to remain around the roots for any length of time.

When grown inside, the Rose is very subject to the green fly and red spider. An effectual remedy for the green fly is a slight fumigation of tobacco and for the red spider freely syringing with soapy water. Mildew is apt to be troublesome in the window garden; because of sudden changes in temperature as well as damp, cloudy weather. For this, use sulphur applied by dipping the affected plant in water and then dusting it with sulphur.

The ensuing spring, as soon as the weather has become warm and settled, turn the plants out of their pots, and carefully remove from the soil. Then repot in pots *a size or two smaller*, using fresh soil, and plunge and treat precisely as in the year previously. About the first of September, take up the plants and repot into pots of a *larger size* and trim into shape, the old wood and the long scraggy branches being cut back to within five or six eyes of the main stems. Then water thoroughly, place in a warm, sunny place, and bring inside before the cold days set in. This treatment can be continued as long as the plants continue to grow strong and healthy, and when they cease to do this either plant them out in the flower border, or else throw them away.

Roses require a rich, well-mixed soil, the most suitable being composed of two-thirds well-decayed sods from an old pasture, one-third well-decayed stable manure, with a fair sprinkling of bone dust. Mix these materials thoroughly, and use the compost rough. In potting use porous or soft baked pots, and let them be proportionate to the size of the plant. Be sure to drain the pots well, and in potting place the plant in the center of the pot, and water thoroughly to settle the plant.

The following varieties have been found suitable for window garden cultivation:—Teas—Rubens, Yellow Tea, Safrano, Bon Silene, Perle des Jardins. Bengals—Queen's Scarlet, Douglas, Duchess of Edinburgh, and Ducher. Bourbons—Hermosa, Queen of the Bourbons, Queen of Bedders, and Edward de Desfosses.

Besides those larger flowered types there is a class of Polyantha, of dwarf habit, which are continually in bloom, and although the individual flowers are not large, they are produced in clusters. Then there is the Fairy Rose; very pretty, having double rose-colored flowers about the size of a dime. As it is constantly in bloom it is a plant that will always attract attention.

PLANTS THAT PASSED THE TESTS IN 1925

EVERY year sees additions to the list of available varieties of popular garden flowers, and indeed "popularity" in a large sense is interpreted by the activities shown in such introductions by the trade, and their acceptance by the buyers.

With the more popular and really fashionable groups of our garden favorites the anxiety for recognition or a stamp of merit is extremely keen. Enthusiastic growers—amateur and professional alike—find especial delight in the making of or hunting out of new things. There is always the hope, nay, the desire that something will be forthcoming that will so far surpass extant and previous varieties as to set a new standard as a definite step of progress.

All novelties are not necessarily better than the older varieties, but at least they should be as good as is the consensus of the experts in each group that at all events they are different. Hence their appeal to the public. In order to prevent the undue dissemination of new productions that are inferior though different or in some other way definitely undesirable, various special societies have been formed whose approval is sought by the introducer and should be asked for by the public. All novelties are subject to trial and test under varying conditions and must be accepted with that understanding.

Dahlias with a "Diploma"

COMPILED BY DERRILL W. HART WITH ASSISTANCE OF PROF. C. H. CONNORS, PROF. ROLAND PATCH, PROF. J. B. S. NORTON, AND MR. CARL SALBACH

IF ANY further evidence were needed, the enormous number of new introductions would be a sufficient measure of the dominant popularity of the Dahlia. The American Dahlia Society coöperates in several trial gardens where the varieties are put under test and carefully observed during the growing season before an award is made. The novelties listed below have passed the test in one or more of these gardens.

American Dahlia Society's Trial Grounds, Storrs, Conn.

VARIETY	CLASS	SCORE	DESCRIPTION	INTRODUCER
ALICE WHITTIER	H. C.	E. 85	Light green yellow	Success Dahlia Gard.
BOB PLEUSE	H. C.	E. 87; C. 93	Carmine shading to oxblood red petals tipped white.	Superior Dahlia Gardens
CHARLES A. GRAY	Dec.	E. 87	Between spectrum red and rose red	Sunnyside Dahlia Gardens
DUMONT	Cac.	E. 85	Carmine	Jack Rowe, Dumont, New Jersey
FANDANGO	H. C.	E. 87	Spectrum red, reverse petals flesh pink and maize yellow	Frederick E. Dixon Scotch Plains, N. J.
IVANWOOD	H. C.	E. 85	Carmine	Jack Rowe, Dumont, N. J.
JERSEY'S IDEAL	Dec.	E. 86	Phlox purple, touches of phlox pink	W. H. Waite
JERSEY'S SUNSHINE	Dec.	E. 87	Light greenish yellow	W. H. Waite
JERSEY'S SUPREME	Dec.	E. 86	Pale rosolane purple, reverse petals rosolane pink	W. H. Waite
JERSEY'S WONDER	Dec.	E. 86	Apricot yellow, shaded pinard yellow	W. H. Waite
LADY FAIRE	H. C.	E. 86	Mallow pink	W. Atlee Burpee Co.
LA TRENTA	Dec.	E. 85	White	Fred Gottschalk
LEMONETTE	P. F.	E. 85	Martin's yellow, blending into picric yellow	Fruitvale Dahlia Farm
LILLIAN BALDWIN	Dec.	E. 86	Rose, center petals aster purple	Danker
LONG BEACH	H. C.	E. 87	Copper and nopal red	J. F. Hartwell
No. 3	P. F.	E. 85	White	Paul A. Davis
No. 232	Dec.	E. 88	Pale rose purple, reverse petals light mallow purple	W. W. Kennedy
No. 231	Dec.	E. 87	Mallow pink, shaded amaranth	W. W. Kennedy
No. 15	Dec.	E. 86	Amaranth pink	Charles Kahle
No. 34	Dec.	E. 87	Light orange yellow, shaded red	Charles Kahle
No. 74	Dec.	E. 86	Tyrian rose, dark center	Charles Kahle
No. 500	Dec.	E. 86	Spectrum red, darker at center	Success Dahlia Gardens
No. 23	Dec.	E. 85	Pale lemon yellow	Lyndora Garden
PRIDE OF MONT ALTO	DEC.	E. 87	Picric yellow outer petals tinged old rose	Oscar R. Moser
SEEDLING No. 25	Dec.	E. 89	Picric yellow	C. Louis Alling
SEPTEMBER MORN	Dec.	E. 87	Mallow pink, blended with purple	William B. Simon
SIDNEY B. MITCHELL	Dec.	E. 86	Rhodamine purple, shading to pink at ends of petals	Carl Salbach
UNCLE TOM	Dec.	E. 87	Blackish red, some carmine on outside	Success Dahlia Gardens

New Jersey Dahlia Society's Grounds, New Brunswick, N. J.

ALFRED EDWARD	Dec.	E. 89	Light phlox pink, tipped phlox purple	A. E. Schmidt
ALICE WHITTIER	H. C.	E. 87	Martius yellow, reverse petals almost white	Success Dahlia Gardens
THE BANDIT	Dec.	E. 85	Scarlet red, reverse light carmine, petals twist	Success Dahlia Gardens
BARBARA WAITE	H. C.	E. 86	Mallow purple and yellow chrome blended	F. R. Waite, Jr.
ELIZABETH GLENDENNING	Dec.	E. 85	Orange heart, coral red with reverse purple and rose	H. F. Hall
HERALD-TRIBUNE ELITE	Dec.	E. 86	Ivory white	W. W. Kennedy
JERSEY'S EMPRESS	Dec.	E. 85	Rich vivid pomegranate purple	W. H. Waite
JERSEY'S FIANCEE	Dec.	E. 87	Spinel pink	W. H. Waite
JERSEY'S IDEAL	Dec.	E. 89	Light rosolane purple	W. H. Waite
JERSEY'S SUNSHINE	Dec.	E. 86	Picric yellow, reverse suffused mallow purple	W. H. Waite
JERSEY'S WONDER	Dec.	E. 88	Apricot orange, reverse slightly suffused purple	W. H. Waite
F. A. KENT	Dec.	E. 85	Mallow purple	Fisher & Masson
LYNDORA	Dec.	E. 85	Pale lemon, reverse slightly suffused amaranth pink	H. F. Hall
MALINCHE	Dec.	E. 86	Light cadmium suffused amaranth pink, outer petals pink	Mrs. Charles Stout
MARGARET WOODROW WILSON	Dec.	E. 86	White, with reverse light rhodamine purple	Fisher & Masson
MILKMAID	Dec.	E. 85	Orange suffused spinel red, center white, margined orange	Charles Gardin
PAULINE	H. C.	E. 86	Lemon orange, reverse suffused amaranth pink	H. F. Hall
ROMAN EAGLE	Dec.	E. 89	Golden bronze	Fisher & Masson
ROSE MARIE	Dec.	E. 85	Light cadmium suffused with coral red, reverse rose streaked purple	Success Dahlia Gardens
ROSS WAITE	H. C.	E. 86	Martius yellow, almost white reverse	F. R. Waite, Jr.
SANHICAN GEM	Dec.	E. 87	Orange suffused dragon's blood red, changing to light red	Fisher & Masson
SANHICAN MAGNATE	Dec.	E. 85	White, reverse rhodamine purple	Fisher & Masson
SANHICAN PRINCESS	Dec.	E. 85	Geranium pink	Fisher & Masson
SANHICAN ROSE	Dec.	E. 85	Light rosolane purple, orange at base of ray	Fisher & Masson
SILVER QUEEN	Dec.	E. 86	White with mallow purple reverse	W. W. Kennedy & Sons
SOLE MIO	Dec.	E. 86	Golden yellow	Richard Lohrmann
UNCLE TOM	Dec.	E. 85	Rich maroon	Success Dahlia Gardens
WHITE SISTER	Dec.	E. 85	White	Mrs. Charles Stout

Southern Trial Grounds, College Park, Maryland

AMBER KING	Dec.	C. 86	Orange to Amber	J. E. Ballego
COURONNE D'OR	Dec.	E. 86	Buff to amber yellow, reverse pink and yellow tones	J. G. Ballego
ELITE GLORY	Dec.	E. 88	Rose red, reverse petals tyrian purple to rose	W. W. Kennedy
FRANCES RITTER	H. C.	C. 86; E. 82	Carmine, suffused scarlet and buff	Leo Ritter
GOLDEN GARDENIA	Dec.	C. 86; E. 81	Yellow	Advance Dahlia Gardens
JERSEY'S BEAUTY	Dec.	C. 89; E. 91	Rose Pink	W. H. Waite
MAID OF THE MIST	Dec.	E. 85	Light yellow, blended with light pink	Solcombe Dahlia Gardens
No. 115–1923	H. C.	C. 84; E. 87	Light greenish yellow	H. F. Horner
SHENANDOAH	Dec.	E. 85	Tyrian rose, shaded to purple	Sheffield Bulb Farm
WINFIELD SLOCOMBE	Dec.	E. 89	Golden shading to dark yellow	Slocombe Dahlia Gardens

California Trial Grounds

MRS J. L. CALLAGHAN	Dec.	E. 85	Pink	J. L. Callaghan
No. 2277	Dec.	E. 87	Orange, reverse petals rose	I. F. Heartwell
No. 2	Pom-pon	E. 85; C. 85	Golden yellow, with brown eye	Carl Salbach
SOLE MIO	H. C.	E. 85	Yellow, with rose shading	Richard Lohrmann

Malinche *White Sister* *Sole Mio* *Ross Waite* *Roman Eagle*

Iris

By the American Iris Society
Sec., R. S. Sturtevant, Wellesley Farms, Mass.

ANY comment upon the introductions of the past year is, of necessity, rather incomplete and rather selective if only because an individual is rarely in a position of knowledge as to the work that is going on in all parts of the world. I am fortunate, however, in having seen and grown many of the American novelties and having secured reports from reliable sources on a number of the foreign additions. Furthermore the introductions of the previous year often serve as a guide to the interest and judgment of the introducer.

There are many additions to the white group and, considered personally, the value of these will depend largely on their vigor and height. The same thing applies to the type of Maori King and other yellow bicolors or variegatas. With this in mind I select Flambeau, Garden White, Lodestar, probably Mrs. Robert Emmet, Primrose, as presumably worthy of interest. The yellow Flambeau and Garden White are both of fair height, rather small flowered but free-flowering and extremely effective in garden clumps while Primrose is a lovely deep yellow, softer in tone than Sherwin Wright and for that reason more effective in the garden color scheme.

In the various varieties of blended tone personal preference is the deciding factor but Coronado, Ishtar, Kestrel, Phyrne, Sherbert II, Druid, and Mrs. Valerie West are from their parentage alone promising. Druid is of an unusual brown-bronze, brilliant and yet so gloomy that a few stalks are sufficient. Sherbert II is lighter and taller, a more livable thing; while one may like or not like the tints of the very light Ishtar it is admittedly fine in other characters. Kestrel is, despite its American origin, of Dominion type, finely formed, very rich, with shades of purple and lights of pink. Both Coronado and Mrs. Valerie West can hardly fail to satisfy even though I recommend them sight unseen.

Such recommendations are not, however, safe when we consider the red and blue-purple selfs as, with so many competitors, merit depends on the minor qualities of form and carriage. Santa Barbara is of the finest; Horizon of coolest blue; Virginia Hale delightful despite its similarity to Dalmatica; Forsete, Crimson Glow, Solferino, and Woodland arouse my curiosity; Rosado, Mrs. Marian Cran, Day Dream all three on the pink side and all three of highest quality.

Of things not in the Tall Bearded class, Cacique like its forerunners Dorothea K. Williamson and fulvala is a real addition while William Mohr is undoubtedly the finest introduction of the year if not of the decade. It has all the curious charm of the Mourning Iris (I. susiana) without its gloom and promises also vigor of growth to a surprising extent considering its origin. Few of us can afford $50 for a root but I think everyone will watch for reports concerning its growth in the expectation of some day purchasing it for much less. My one glimpse of its beauty brought me into the fold.

Pearl Blue is an intermediate with the earmarks of korolkowi blood, just rubbish until it develops into a good sized clump spangled with its blooms. To return to the Tall Bearded varieties by the way, My Lady should not be forgotten. At the official Test Garden at the New York Botanical Garden this plicata with its frill of purple has been outstanding for five years. Tall, vigorous, handsome, it is a vast improvement on Mme. Chereau.

I hope that I may be forgiven for any errors of omission in these brief recommendations and The American Iris Society would much appreciate any corrections or additions to the list of 1925 introductions.—R. S. S.

1925

Irises as Listed by the American Iris Society

ALCYON (Cayeux) White; 30 in.
ALLIES (Vilmorin) Smoky reddish-violet; 2 ft. Tends to bloom in autumn.
AMMERIS (Millet) A violet-blue Dalmatica seedling.
ANOSIA (Williamson).
ARLETTE (Cayeux) La Neige x White Queen. Cream-white.
ATHANAEL (Mil.) Pink blended violet bicolor; 3 ft.
AZIYADE (Cay.) Mauve-blue bicolor; 4 ft.

BABY DOLL Sib. (Brallior)
BARCAROLLE (Cay.) Lilac-red; 30 in.
BETTY BALES (Bales) Buff and mauve.
BOUREM (Cay.) Peau Rouge x Opera. Red bicolor; 30 in.

CACIQUE (Berry) a rich purple I. fulva seedling.
CHARTIER (Hall) White; 32 in.
CLAUDE MONET (Cay.) Iris King x Imperator. Type Iris King; 30 in.
COLIAS (Wmsn.).
CORONADO (Mohr-Salbach) Type Asia; 3 ft.
CRIMSON GLOW (Perry) "Crimson-rose."
CURLESQUE (Weed) A plicata flushed with blue.

DAINTY LADY (Weed) Type Ochracea; 28 in.
DAINTY MAID (Perry) Lavender bicolor.
DAY DREAM (Sturtevant) Pink-toned; 42 in.
DR. MANN (Fryer) DB. Lavender bicolor.
DR. POTTER (Fry.) DB. Dark purple.
DRUID (Sturt.) Deep bronze; 40 in.
DULCINEA (Mohr-Sal.) Violet bicolor.

ELINOR FUNK (Bral.)
ELIZABETH HAMILTON (Bral.)
ELSINORE (Hall) Type Loreley; 34 in.

FELDSPAR (Morrison) IB. Opalescent yellow.
FLAMBEAU (Sturt.) Brilliant yellow, veined; 38 in.
FOLKWANG (Goos & Koenemann) Blended "red" bicolor.
FORSETE (G & K) Dark lavender self; 4 ft.

GARDEN WHITE (Sturt.) White; 42 in.
GRAPTA (Wmsn.).
GREY DAWN (Bales) A greyed pallida.
GRENADIER (Vilm.) Purple self; 3 ft.
GREY FRIAR (Bral.).

HIDALGO (Mohr-Sal.) Lavender self.
HOMER C. (Mor.) Type Opera; 38 in.
HORIZON (Mor.) Palest blue; 4 ft.

ISHTAR (Sturt.) A buff Sindjkha; 4 ft.

KESTREL (Mor.) Type Glamour, a rich reddish blend; 3 ft.

LODESTAR (Hall) Type Maori King; 3 ft.
LOUDOUN (Fendall) Cream plicata, yellow flecked; 3 ft.

MARC AUREAU (Cay.) Lavender bicolor; 30 in.
MARY GIBSON (Perry) Bronzy-rose.
MARY HAWKINS (Bral.).
MAY CHEREAU (Bral.).
MAY SADLER (Perry) Rich "red" bicolor.
MONTOUR (Hall) Type Jacquesiana; 30 in.
MRS. EDWARD HARDING (Perry) Dark lavender bicolor; 4 ft.
MRS. ILTIS (Fryer) Wisteria violet self.
MRS. MARIAN CRAN (Perry) Type Lohengrin, not to be confused with Marian Cran.
MRS. ROBERT EMMET (Perry) Milk-white.
MRS. VALERIE WEST (Bliss) Type Bruno.
MUSCADIN (Cay.) Type Maori King-Lorelei; 30 in.
MY LADY (McK.) Plicata; 4 ft.

OLIVE MURRELL (Perry) Type Quaker Lady.
OPHIR GOLD (Andrews) Deep yellow; 33 in.
ORIZABA (Berry) Dark mesopotamica; 4 ft.

PAVANE (Cay.) Type Navaio; 30 in.
PEARL BLUE (Intro. Sturt.) IB. Floriferous; 18 in.
PRIMROSE (Sturt.) Yellow self; 3 ft.
PHRYNE (Cay.) Mme. Durrand x Lord of June; Lavender bicolor; 3 ft.

QUEEN CHEREAU (Bral.).

RAHNA (Cay.) Type Ochracea; 28 in.
RAMELDO (Mohr-Sal.) A dark blend.
RENEE DE LABORDE (Denis).
ROSADO (Mohr-Sal.) Blush pink, 4 ft.

SALOME (Cay.) Violet bicolor; 3 ft.
SANTA BARBARA (Mohr-Sal.) Lavender self; 4 ft.
SENSATION (Cay.) Corn-flower blue self; 42 in.
SHERBERT II (Sturt.) Ecru and violet carmine; 42 in.
SILVER QUEEN (Perry) Bluish white, a Kashmiriana seedling.
SIMPLICITY (McK) Pink flushed plicata; 33 in.
SNOW (Bales) White.
SOLFERINO (Cay.) Rose-violet, 42 in.
SPAHI (Vilm.) Violet bicolor.
SWAN (Lovett) DB. White; 9 in.

TANSY (Andrews) "Early yellow."
TERIAS (Wmsn.).
THECLA (Wmsn.).
TIB-BIT (Sturt.) Lavender self; 18 in.

WILLIAM MOHR (Mohr-Sal.) Mesopotamica x Gatesi. Flushed and veined lilac; 2 ft.
WOODLAND (Hall) Mauve self; 4 ft.

VINGOLF (G & K) Type Sarabande; cream and violet.
VIRGINIA HALE (Bral.). Type Dalmatica.

ZUMBRO (Fryer) Lavender bicolor.

Unless otherwise specified (DB—Dwarf Bearded, IB—Intermediate) all varieties in the above list belong to the Tall Bearded class of garden irises.

The following names of 1925 Introductions are not acceptable to the American Iris Society as they duplicate names already in use.

Distinction, Ophelia (Cay.); Thalia, Thora Perry, Delicatissimus, Melpomene, (Perry) Canary Bird, Blue Jay, Sea Gull, DB. (Lovett).

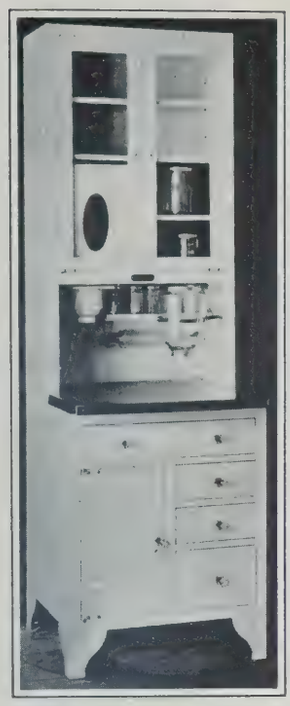
Gladiolus

By the American Gladiolus Society
Sec., John C. Davis, Rochester, N. Y.

THE Gladiolus has indeed arrived. Out of the chaos of multiplicity of varieties by hundreds of enthusiastic breeders slowly but surely there have emerged from the mass a few definite types and standards which have universal acceptance and which can be taken as a basis of measurement. The American Gladiolus Society is very much alive, and it renders real service in keeping straight what would otherwise be an unintelligible tangle of variety multiplication.

VARIETY	INTRODUCER	DESCRIPTION	VARIETY	INTRODUCER	DESCRIPTION
THE ORCHID	Sprague	Cattelya shape & color	LADY BYNG	Gilchrist	Pink
PEARL OF CALIFORNIA	Kingsley	Pink	ROSEMARY	Dr. Bales	Pink
KING TUT	Davis	Begonia Rose	STARBRIGHT	Dr. Bales	Yellow
AMEGLASO	Davis	Cream	LOS ANGELES	Houdyshel	Shrimp Pink
GLORIOSA	Davis	Pink	LONGFELLOW	Prestgard	
GENESEE	Davis	(Primulinus Grandiflora) Yellow	MRS. KRISTIAN PRESTGARD	Prestgard	White
			BREAK O' DAY	Bill	Pink
WINONA	Davis	White and lavender	ETHELYN	Fischer	Orange
TYCKO ZANG	Austin	Salmon	ORANGE QUEEN		Orange
MRS. P. W. SISSON	Coleman	Pink	FIREY KNIGHT	Heemskerk	Red
MINUET	Coleman	Blue	FRITZJOF	Heemskerk	Red
LACINATUS	Kunderd	Rose	RED GIANT	Biggard	Red
VEILCHENBLAU		Blue	JUBILEE	Kemp	Lavender
PURPLE PERFECTION		Blue	ORCHID LADY	Spencer	Lavender

(Continued on page 84)



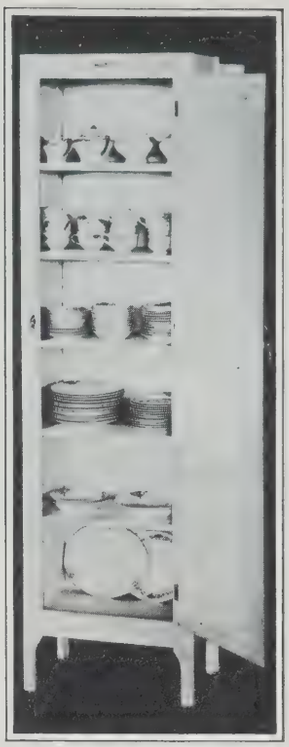
Space is saved and the efficiency of the kitchen greatly increased by the use of a small kitchen cabinet such as this

KITCHENS that CONTENT the HOUSEWIFE

J. DUNCAN HUNTER
Architect

A Little Thoughtfulness in Arranging Equipment Saves Lots of Effort and Labor in the Years Ahead

Photographs by courtesy of Darlo Co., The White Door Bed Co., Wasmuth-Endicott Co., Janes & Kirtland Inc., R. H. Macy & Co., U. S. Rubber Co.



With limited pantry space, a dish cupboard is a convenience and an added charm

THE kitchen is perhaps the main room in the small home; it is at least the place in which the "business" of housekeeping is, to a large extent, conducted.

Since the kitchen is the principal workroom of the home, it should in design and equipment be governed by the efficiency principles that regulate the conduct of a well-organized office or business.

The cardinal principal in the kitchen of the small household is the saving of steps. During the preparation and serving of a meal there are countless trips made from the range to the sink, to the refrigerator, to kitchen stores, to the cupboard for cooking utensils, to the dish closet, etc., etc., to say nothing of the numerous trips to and from the dining room. These trips require thousands of steps and the process is gone through three times a day in most homes.

For this reason, the layout of the various kitchen units should, above all things, be arranged conveniently and as compactly as working conditions will allow.

Large kitchens with their various equipment somewhat scattered, require a great many extra steps, which are avoided in a small compact kitchen.

In theory, the ideal layout for the kitchen would be one in which the housewife could stand, or rather sit, in the center of the room and reach all the kitchen equipment from this one point. In practice such a plan does not work out on account of the large size of some of the equipment used and because of the space occupied by doors leading to dining room, rear entry and such.

The logical point from which to start a discussion of the various phases of a model kitchen would seem to be from the layout of the various equipment units.

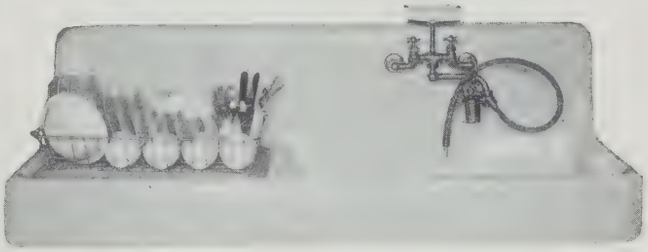
For the small house it has become the rule to omit the pantry and place the cupboards for dishes and such in the kitchen. This saves many steps by centralizing the entire service units.

There are of course certain physical conditions and limitations imposed on all kitchen layouts by the plan arrangement of the entire house and the relation of the kitchen to the dining room, pantry if any, the service entrance and such, as well as the location of doors and windows.

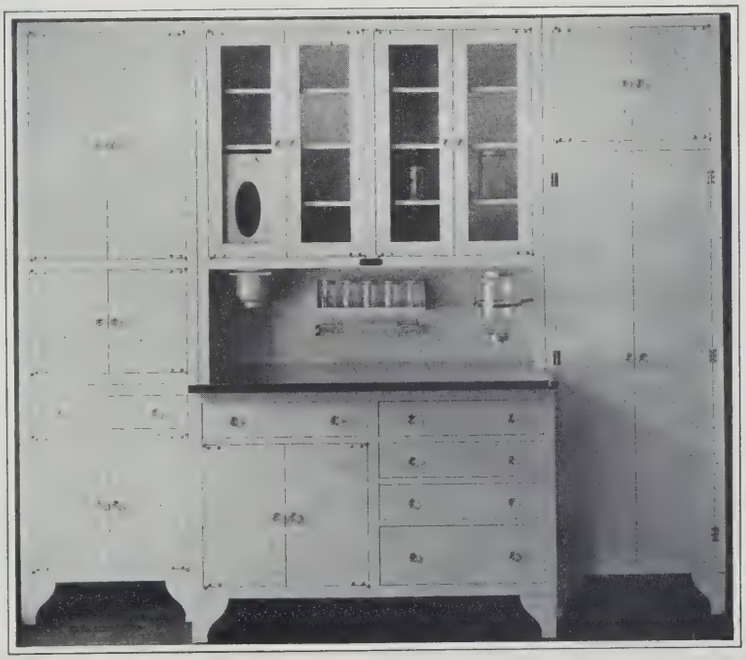
If a coal range is used the location of the chimney is also fixed.

All these factors are largely determined from architectural requirements entirely outside of the scope of the kitchen proper. The location of the windows is governed mainly by the relation to other windows on the outside of the house, the chimney must be located where it will not mar the architectural effect from the outside and the service entrance must be logically located for convenience and as remote as possible from the main entrance to the house.

With these imposed conditions in mind we will give consideration to the various kitchen equipment units and their disposition in the general scheme. The kitchen should have windows on at least two sides. Opposite sides are best if plan arrangement permits, so that ample light and cross ventilation are provided.



The days when hands must be in dish water have passed. With this simple washer the dishes are stacked in the racks, soap is mixed with the water in the mixer under the faucets and the water sprayed over the dishes by the wire-bound hose. The hose is easily detached as needed



The various units of this cabinet if used as shown require but one wall space. The units include a kitchen cabinet, dish cupboard, broom closet, refrigerator, and storage cupboards which may be used separately and built into the walls if desired

Efficiency is the keynote of this kitchen where the washable walls and rubber tile flooring make for cleanliness. The built-in kitchen cabinet is well worth consideration as a step saver

Let us begin at the service entrance, which includes the reception of goods and the disposition of waste. The refrigerator should be located adjacent to the service entrance. Whether ice service is required or whether an automatic refrigerator is used, it should be conveniently located to dispose of the food products as they are delivered. The automatic refrigerator that makes its own refrigeration and ice is becoming the rule, thus eliminating the inconvenience of the ice box, and its drain—but of course the initial costs are higher as a rule. If an ice box is used it ought to be iced from the outside so that the iceman does not enter the kitchen.

For the waste, a garbage incinerator can be installed adjacent to the chimney or a small closet can be provided near the service entrance that will hold the garbage can and which is accessible from both outside and inside.

A small covered porch is desirable at the service entrance as it affords protection against the weather and gives more seclusion to the service entrance, an important factor if the entrance is at all conspicuous from the garden or from the main entrance to the house.

With the refrigerator located near the service entrance, it should open directly into the kitchen or it may open into the rear entry immediately adjacent to the kitchen.

The closet or cupboard used for kitchen stores should be near the rear entry and refrigerator, but must also be convenient to the sink and range.

Locate the kitchen sink under a window. It should have double drainboards, if space permits. If only one drainboard be used that should be on the left-hand end of the sink, for in washing dishes they are washed with the right hand, and turned out with the left. Therefore a right-hand drainboard requires repassing of dishes and attendant waste motions.

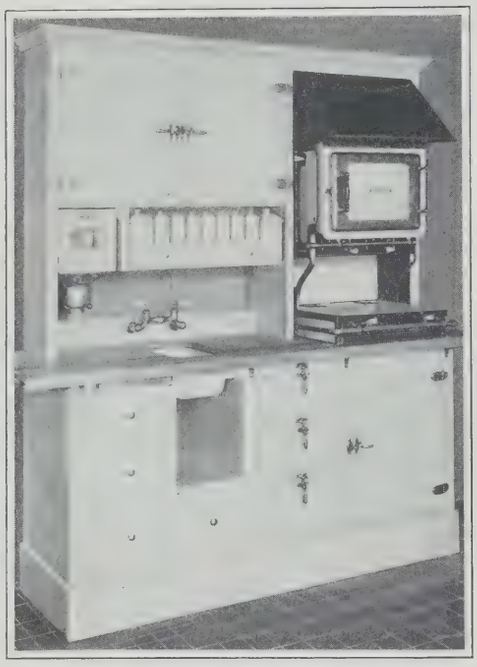
The kitchen cupboards, at least those for storage of kitchen dishes and cooking utensils, may well be arranged adjacent to the sink. A good arrangement is to have cupboards with solid doors and shelves, extend under the drainboards of the sink with a countershelf located at level of the sink, 3 feet above floor and with an open space about 15 inches high over the counter and then shallow cupboards with glass doors and shelves extending to ceiling. These upper cupboards should not, however, extend far out over ends of drainboards or they will interfere with dishes, etc.

The most popular type of sink is the one piece enamel iron sink with double integral drainboards with back and apron, all in one piece. The faucet should be a double faucet with a swinging spout, so that the water may be mixed and the temperature regulated as desired, and with the swinging spout it can be delivered just where wanted.

Wooden mats are used to protect dishes in the sink and either wooden or rubber mats may be used on drainboards.

A good place for the kitchen radiator is

(Continued on page 82)



Condensed into the space of this cabinet are all the utensils necessary for a complete kitchenette. With work table, electric range and oven, refrigerator, sink and many storage compartments, this is a practical space saver

Here is cheer and comfort as well as convenience. Color in the curtains and Inlaid linoleum contrasts pleasantly with the enameled furniture. The sink is large and well placed and the built-in cupboards afford ample storage space

A closet to hold brooms and cleaning brushes is a necessity in any kitchen. Nothing could be more pleasing than this of white enamel which comes ready-built

COMPACT CALENDAR

For the Garden Year

☞Take a memorandum book and put down where they belong such items as will come into your own garden. It will simplify things to know ahead what is coming.

In considering dates given with data below, bear in mind that they apply generally to the latitude of New York City. For every hundred miles toward south the dates may be advanced roughly one week, for the same distance toward north, they should be set back one week; also allow four days variation for five degrees of latitude or for four hundred feet of elevation. Broadly speaking, the dates apply for all localities and sections where the last killing frosts occur around the middle of May.

MARCH

THE "CLEAN UP AND GET READY" MONTH

Loosen mulch on beds and borders; remove a little.

Rake sticks and rubbish from the lawns; roll and top-dress with fine, sifted compost.

Finish pruning tree and bush fruits, Roses, vines and all shrubs that bloom after August 1st.

Complete winter spraying before growth starts.

Start the hotbed; select place for this summer's compost heap.

Cuttings of Chrysanthemums, Carnations, Geraniums and other house plants can be taken for next winter's flowers.

Underglass: sow Celery, Head Lettuce, early Cabbage, Brussels Sprouts, and allied members of the Cabbage tribe, also Beets.

Outdoors: after middle of month make first sowings of Spinach, smooth Peas, and Parsley.

APRIL

THE "UP AND DOING" MONTH

Gradually uncover beds and borders, removing mulch to compost heap. (With help of the new chemical, Adco, this can be turned into excellent manure in three to six months.)

Do not remove mulch from Rhododendron and other broad-leaved evergreens—or any permanent shrubbery borders if looks permit.

Plow—or spade—as soon as soil conditions warrant.

Plant outdoors fruit and ornamental trees (except evergreens), fruit bushes and shrubs; Roses, Sweetpeas and a few of the most hardy annuals.

Plant indoors or in the hotbed flower seeds for later transplanting.

Seed down new lawns and do any needed sodding.

As cuttings root pot them up; keep them warm until established.

Move to a cooler part of the house (or to hotbed or coldframe), to harden off cuttings already potted and seedlings in pots.

As Easter plants and bulbs fade, cut back, ripen off and rest.

Dig over perennial borders; work in bonemeal and a good general fertilizer. Underglass—sow Tomatoes!

Sow Cucumbers and Melons in pots, or dirtbands, or pieces of sod.

Outdoors, first part of month, sow such hardy root crops as Carrots, Onion sets, and early Potatoes. Repeat March sowing of Spinach and smooth Peas.

After middle of month sow wrinkled Peas (Little Marvel, Thomas Laxton, Alderman) for the crop throughout June. Transplant Head Lettuce and early Cabbage from frame.

Sow early Beets; Lettuce (Wayahead, All Seasons, Wonderful Crisphead and Cos), for early midseason and late use; Witloof Chicory, Parsnip. During the last week take a chance with a hardy variety of Bush Bean (Red Valentine).

Sow short rows of early round and olive shaped Radishes once a week from first to last of the month; sow Icicle and Chartier after middle of month for a succession. Sow Yellow Globe Danvers Onion for winter use.

MAY

WHEN YOU MAY PROVIDE FOR THE FUTURE—OR FALL DOWN

Sow some seed every week both indoors and out (in increasing variety).

Prune Forsythia and other early flowering shrubs as soon as they have bloomed—but not too severely.

Look for borers in Plum, Peach, Locust and other susceptible trees. Destroy the worms in their burrows and, in the case of Peaches, use paradichlorobenzene.

If you own a "leggy" Rubber plant, now is a good time to make it into two stocky ones by the pot-layering method.

Make note of soggy wet spots in lawn and garden—later to be drained.

First spring spraying is due just as petals fall from the fruit trees; use a combination spray.

Hotbeds should be given all the air possible, so long as chilling is avoided.

Get rid of tent caterpillar nests while they're small; crushing, burning or soaking with oil will do it.

Set out new hedges of Privet, Barberry, and Box.

Plant out the hardier kinds of bedding plants as they are sufficiently hardened off.

Repot all house plants that need it—Tuberous Begonias, especially.

Repeat sowing of three wrinkled sorts of Peas suggested for April, bearing in mind that July heat is very apt to reduce crop.

After first week make principal plantings of Bush Beans.

After middle of month, make principal planting of Sweet Corn: Golden Bantam, Howling Mob, Golden Evergreen, and Country Gentleman bear in ideal succession.

Around Decoration Day, set out Tomato plants. Where cutworms abound use dirt bands.

Plant Gladiolus and continue at intervals for succession.

JUNE

JOYFUL REALIZATION

The chief and first job of June is "thinning out." All seeds are sown too thickly.

Watch out for cutworms; trap, poison, catch, and crush.

Plant out Waterlily roots when weather warms sufficiently.

Prune lightly ornamental shrubs after they bloom. With Lilacs, just remove the forming seed pods.

Prepare to meet the first of the rose chafers—with poison, or kerosene, or tractable hens.

Plant Dahlias, Gladiolus, Cannas and other summer blooming bulbs and roots; spread the work over three or four weeks to give a succession.

For neatness tie up foliage of Scilla and other small bulbs that have bloomed.

Dig up, cure and store bulbs when tops yellow and dry off.

Continue sowing seeds outdoors, even the most tender ones.

Bring house plants outdoors and plunge pots in semi-shady corner of the garden—not too deep, however.

Thin the grapes; bag a few bunches to get "quality" fruit.
Watch Currants and Gooseberries for mildew and worm; spray promptly for either or both.
Mow the lawn frequently and regularly, also roll a few times while soft.
Sow Cucumbers, Squashes, and Melons about the middle of the month.
Make succession plantings of Beans every other week.
Sow early Turnips for July use and Kohlrabi for August, when Turnips grow bitter.
Sow Leek for winter salad and soups.
Sow early Sweet Corn every other week for a succession to fill the gap between the principal sowings.
Around middle of month, sow Lima Beans, both bush and pole types.

JULY

AND EARNED REWARDS

Time to take stock and prepare for winter in the vegetable patch.
Time to clip hedges. Don't let Privet flower.
Keep flowers picked from annuals and perennials to prevent seeding.
Prune Climbing Roses carefully according to results sought.
Finish digging spring flowering bulbs.
Cultivate! CULTIVATE!! CULTIVATE!!!
As cuttings grow shift to larger pots.
Keep stakes in readiness and supply where tall plants need them.
Keep the compost pile moist, compact, and even; turn it over once to promote uniform fermentation.
This is summer spray time—use nicotine or oil to vanquish aphis, red spider, green fly, etc.
As Raspberry and Blackberry canes cease fruiting and dry up, cut them out.
Head back Dahlias, Chrysanthemums, Cosmos and other late bloomers.
A gallon of water a day to a Rose bush now is worth half a dozen next fall.
Up to July 15th make final sowings of early Sweet Corn, and 60 day bush Beans. Sow good keeping sorts (which means late varieties) of Beets, Carrots, Turnips, and Ruta Baga, for winter storage.
Set out Celery plants (early and late) and late Cabbage, like Surehead and Danish Ball head varieties.
Pull up every row holding plants "on the decline" and sow to other crops including Kale for winter greens.
During July heat, irrigating can hardly be overdone on well-drained soil. Heavy clay soils should be kept in dust mulch condition through constant cultivation. Crops that need water more than others are: Celery; all members of the Cabbage family that grow above the ground; all crops that grow on vines (Cucumbers, Melons, Squash, etc). Crops that can get along on less moisture but require more cultivation are all root crops (Beets, Carrots, etc.), Corn, Beans, Tomatoes, Lettuce and other vegetables of a leafy character (Chard, Spinach, etc.)
Help along Melons, Cucumbers, and Squashes by weekly applications of liquid manure.
Fight the aphis or plant lice! Of all the insidious pests of the garden, these are the worst.

AUGUST

REALIZED ANTICIPATIONS

Carnations and Chrysanthemums (from cuttings) now growing outdoors should be brought in to frame or cool house.
Keep the soil stirred—especially after each rain.
Plant Iris and other perennials.
Move evergreens this month—and anything else *if kept moist at all times.*
Order for fall planting—Hardy bulbs, Fruit trees and bushes, and deciduous ornamental stock.
Buy and plant pot grown Strawberry plants—and save a year.
It's a good time to lay drain tile in low, wet spots—
Don't stop spraying just because the plants seem to be growing well so long as a single pest is to be seen.
Give Dahlias and other gross feeders a dose of liquid manure as they come into flower.
In the case of new lawns, leave the clippings unraked to prevent soil baking.
Gather any mummied grapes, plums, etc. that may have been left behind in harvesting the crop—and burn.
Aster plants that look yellowish and stunted may be afflicted with "yellows", a disease of the mosaic group. Remove and burn them to safeguard the rest.
Last outdoor vegetable sowings of season. The Cabbage family plays a great part. Early in the month, all the members of the tribe mentioned in July may still be sown. In addition to Turnips, Rutabagas and Kale, plant Winter Radishes, Mustard and Chinese Cabbage.
About the middle of the month sow again early Radishes and early (Butterhead) Lettuces for September and October use.

SEPTEMBER

A MONTH OF SATISFACTION

Study, survey, analyze the garden with a view to making improvements in the future.
Begin to plant hardy bulbs any time now.
Dahlias will benefit from some special watering, feeding and cultivating.
Set out Peony roots.
Save seed from any especially precious plants; keep the faded flowers picked from the others to prevent seed forming.
Look to the hedge shearing.
Ease up a little with the lawn mower, but if water is needed use it lavishly at intervals rather than often but sparingly.
This is a hard time for specimens set out last spring; keep them mulched well and watered. Light shade over small plants will help check evaporation.
Bank Celery with soil or boards. If backward in development, apply liquid manure or nitrate of soda, or both, to stimulate growth. Pick the choicest green Tomatoes (perfect specimens only) to store and ripen by Christmas.
Sow outdoors: Spinach, both regular kind and New Zealand, also Corn Salad.
Underglass: Sow Radishes, Carrots, Cucumbers, and Tomatoes. Select sorts especially suitable for forcing.
Keep the cultivator going to keep down next year's crop of weeds.
As vegetables mature and are stored, remove the tops, stalks, dead plants or what not and either compost or burn.

OCTOBER

THE OPEN DOOR TO FUTURE ACCOMPLISHMENTS

Out with annuals that look scrubby! Manure and dig up the beds, and plant to perennials, bulbs, or a cover crop.
Rearrange borders.
Continue to plant bulbs right up to freezing time.
Prune late blooming shrubs (just after they have flowered).
Turn compost heap once more.
Seed down new lawns unless there has been exceptional drought.
Lift the house plants that have been plunged all summer; bring in to a frame or cool part of the house to get ready for winter indoors.
Make copious notes about important features in the garden. Use labels to mark plants that are to be moved later.
It's never too late to give plant pests a final dose of oil, bordeaux or combination spray.
Get in readiness for the big planting campaign between now and the freezing of the ground.
Overhaul the coldframes or, if there are none, provide some.
Lift all root crops, including Celery. Dig a dozen Parsley roots and a plant or two of Mint to plant in coldframe for winter use.
Store Leeks, the same as Celery. Pits, in the garden, may be used to store Beets, Turnips, etc.
Lift a few large Rhubarb roots, cut off tops and let freeze, with slight

(*Continued on page 86*)

FACTS and FIGURES you may FORGET

SOME GARDEN ARITHMETIC AND WORKING RULES FOR THE LITTLE GARDEN

How to Use Hen Manure

Hen manure furnishes fertilizing elements in concentrated form and should be mixed with some less active material to increase bulk. For either light or heavy soils it may be mixed with wood ashes, using one to three parts of hen manure to one of ashes. For light, sandy soils with little humus mix with three or four times as much rich loam or leaf mold. For heavy clay soils use a sandy loam in place of the leaf mold, or road dust, or even coal ashes. Either of these composts may be applied as top-dressings or directly to the plants. On a heavy clay loam soil, use the refuse from the hennery composted with wood and coal ashes in the proportions mentioned and one part of this mixture incorporated with ten parts of stable manure.

Cure for Cutworms

	WHOLESALE		RETAIL
Wheat bran	50 lbs.	or	5 lbs.
Paris green	2 lbs.	or	4 oz.
Blackstrap molasses	2 qts.	or	½ pt.

Water enough to give crumbly consistency

Topdressing for Bluegrass Turf

Mix 50 lbs. bone meal and 5 lbs. ammonium sulphate. Dust over surface, then water well. Apply twice monthly from April to midsummer.

How to Feed Your Plants

PLANT FOOD	FERTILIZER OR SOURCE	USE PER SQ. ROD	NOTES
Nitrogen	Nitrate of soda	1½ lbs.	For a solution 1 lb. to 12 gals. water.
	Sulphate of ammonia	2 lbs.	
Potash	Kainit	3 lbs.	
	Sulphate of potash	1½ lbs.	Better for vegetables
	Muriate of potash	1½ lbs.	Better for fruit
	Wood ashes	Plow in all you can	
Phosphoric acid	Ground rock (acid phosphate)	3–4 lbs.	Equally desirable. Use whichever can be most easily obtained.
	Dissolved bone	1 lb.	
	Basic slag	4 lbs.	

Spray Materials in Simple Form

BORDEAUX MIXTURE: 1 heaping tablespoonful copper sulphate; 1½ rounding tablespoonfuls quick lime. Dissolve copper sulphate in 1 qt. warm water; slake the lime, and add water to make 1 qt. Slowly pour two solutions *together* into third vessel, stirring well. Add 2 qts. water—and use.

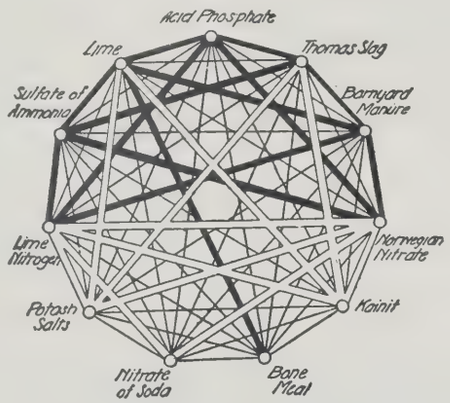
AMMONIACAL COPPER CARBONATE: 2 flat teaspoonfuls copper carbonate. Dissolve in 2 fluid oz. (more or less) ammonia in quart jar. Fill jar with water; let settle; pour off clear liquid; add 7 qts. water. Use at once.

ARSENATE OF LEAD (paste): 1 rounded tablespoonful, dissolve in 1 gal. water or bordeaux mixture.

KEROSENE EMULSION: 1 in. cube common hard soap; ½ pint soft water; 1 pint kerosene. Shave soap into water (in quart vessel or larger); bring water to boil, stirring to dissolve soap; remove from fire and slowly add kerosene, churning vigorously with egg beater or small spray pump.

PARIS GREEN: 1 heaping teaspoonful to 3 gals. bordeaux mixture or water; in latter case, add 3 heaping teaspoonfuls slaked or agricultural lime.

NICOTINE SULPHATE: Add to bordeaux or to lead arsenate solution (or to the combined preparation, as though that solution is the "water" in the formula. This makes a 3 in 1 all around spray for the garden.



TO MIX OR NOT TO MIX?

The materials joined by the white bands may be mixed and applied together, but not for storage. The thin black lines join materials that can be mixed at any time. Do not mix, nor apply together the substances joined by heavy black lines, as they re-act destructively on each other.

Germinating Table of Garden Seeds

	DAYS		DAYS
Bean	5–10	Lettuce	6–8
Beet	7–10	Onion	7–10
Cabbage	5–10	Pea	6–10
Carrot	12–18	Parsnip	10–20
Cauliflower	5–10	Pepper	9–14
Celery	10–20	Radish	3–6
Corn	5–8	Salsify	7–12
Cucumber	6–10	Tomato	6–12
Endive	5–10	Turnip	4–8

Vegetable Quantities to Sow

Minimum amount to plant for real practical yields to supply the table: Radish, 20 ft., Spinach, 50 ft. row. Peas, 50 ft. row. Parsley 10 ft. row. Beets, 50 ft. row. Lettuce, 20 ft.

The average 10c packet supplies 200 to 300 Tomato plants. The average Tomato plant staked and pruned yields 30 to 40 lbs. of fruit, spreading on the ground 20 to 30 lbs.

For constant supply summer greens sow 20 ft. row each Swiss Chard and New Zealand Spinach.

Witloof Chicory 20 ft. of row for each 3 lbs. of crop.

Parsnips 50 ft. row to yield 2 bushels for winter use.

Beans. Sow 6 in. apart for bush type; 6 to 8 beans to hill for tall or runner type. Sow beans "eye down."

Row and Yield of Beans: Bountiful (green pod) and Sure Crop Wax (yellow pod) 20 lbs. pods from 20 ft. row during 3 weeks.

Corn: 20 plants to 20 ft. of row; 2 ears per plant.

Lettuce all sorts 1 ft. space in row.

Radish. 1 to 4 inches space according to variety.

Beets, Carrots, Kohlrabi, Turnips: 4 inches space in row.

Witloof Chicory, Salsify, Parsnip: 6 inches in row.

Average Depth to Sow

One quarter inch or less: Celeriac (⅛), Celery (⅛), Parsley (⅛), Water Cress (1/16).

One half inch: Cabbage group, Carrot, Chicory, Dandelion, Kohlrabi, Lettuce, Pepper, Turnip (¼–½).

One half to one inch: Corn Salad, Upland Cress, Eggplant, Endive, Onion (seed), Parsnip, Radish, Rhubarb, Rutabaga, Salsify, Tomato.

One to two inches: Globe Artichoke, Asparagus (seed), Beans (bush ½–2), Beets, Cardoon, Citron, Corn, Cucumber, Melons, Spinach and N. Z. Spinach, Okra. Onion (sets), Pumpkin, and Squash.

Two to three inches: Jerusalem Artichoke, Peas, Sweet Potatoes, Rhubarb (plants).

More than three inches: Asparagus (plants 3–5), Horseradish (roots 3–4), Irish Potato (4).

Loudon's Rules for Gardeners

1. Perform every operation in the proper season and in the best manner.

2. Complete every operation successively.

3. Never, if possible, perform one operation in such a manner as to render another necessary.

4. When called off from any operation, leave your work and tools in an orderly manner.

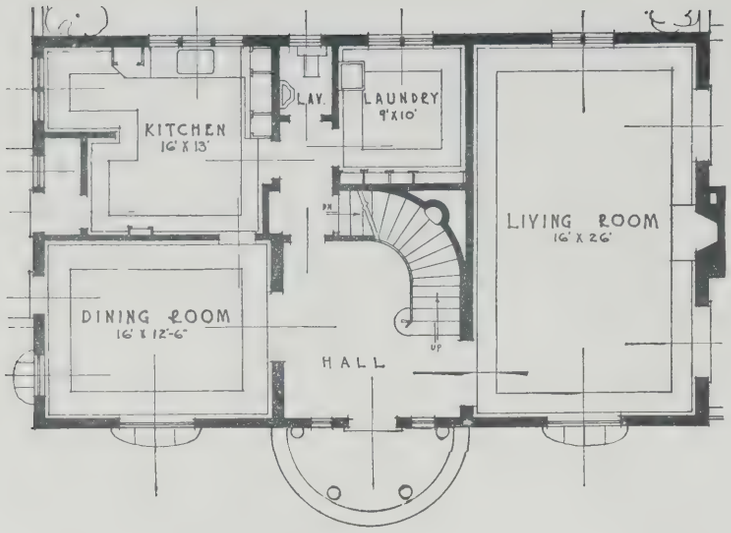
5. In leaving off work, make a temporary finish, clean up your tools and carry them to the toolhouse.

6. Never do in the garden or hothouses that which can be equally well done in the reserve ground or the back sheds.

7. Never pass a weed or insect without pulling it up or taking it off, unless time forbid.

8. In gathering a crop, take away the useless as well as the useful parts.

9. Let no plant ripen seeds, unless they are wanted for some purpose, useful or ornamental; and remove all parts which are in a state of decay.



MUCH has been made of the main hall in this stucco home of the Northwest. It is generous in size to provide a fitting setting for the sweeping curve of the stairway—easily the dominating architectural feature of the interior. This width of hall also provides the space at the rear needed for the laundry and a lavatory.

Upstairs the same spaciousness of hall is maintained, embellished by the color of the balcony painting.

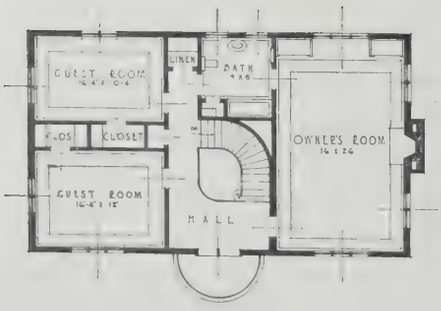
Residence

of

Mr. and Mrs. J. Fred Kenworthy

Tacoma, Washington

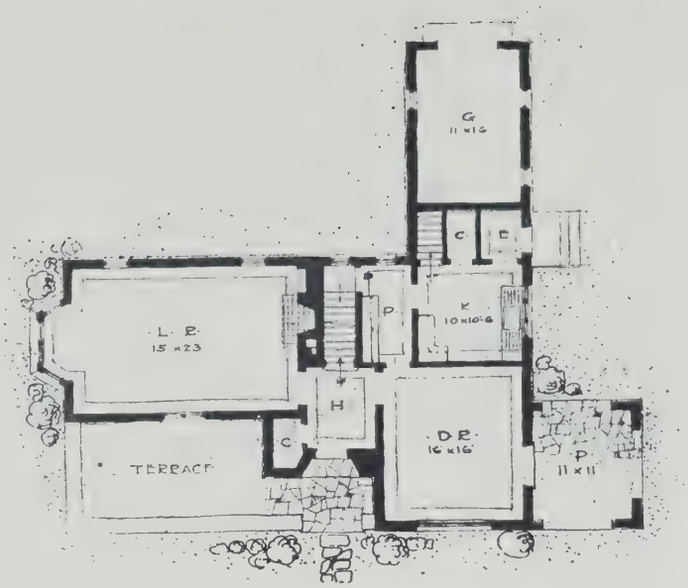
Sutton, Whitney & Dugan
Architects



IT REALLY is a little house, as you will see by the sizes of the various rooms, though its division into wings and the inclusion of a garage contribute to the general effect of a more elaborate establishment.

It will be noted that there is no door between house and garage, though they are under one roof, thus cutting down the insurance rate and also the possibility of garage odors in the adjoining rooms. The maid's room is over the garage, isolated entirely from the rest of the second story and reached by its own stairway from the kitchen.

There are many touches of individuality—the rounding of the main stairway, the sleeping porch in the gable of the main porch wing, and the oriel projecting from a corner of a bedroom. A very pleasing restraint is shown in the confinement of the half-timbering to a few focal centers of the exterior.



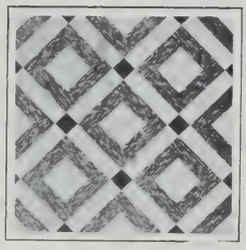
Home
of
Mrs. Mary McKelvey

Spuyten Duyvil, N. Y.

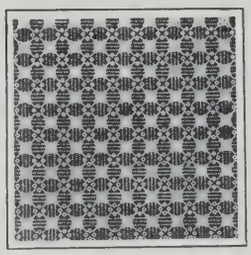
Julius Gregory, Architect

Photographs by
John Wallace Gillies

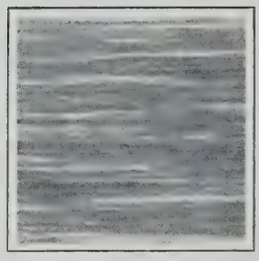
Printed linoleum, Chinese design



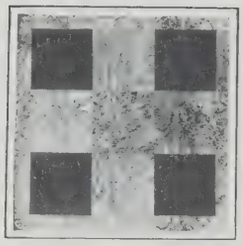
Inlaid linoleum, parquetry pattern



Colorful printed linoleum

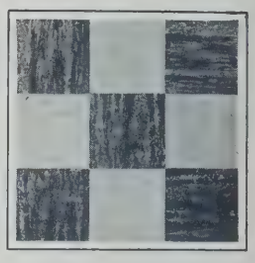


Jaspé inlaid



That linoleum has wide diversity in design is shown by the illustrations on this page which alas! cannot convey its richness of color. The above is one of the Marble inlaid patterns

The charm of this satisfying room is due in great measure to the Jaspé linoleum on the floor with its warm tones of tan and brown



Marble inlaid in both large and small squares and in tones of green and brown or black and white

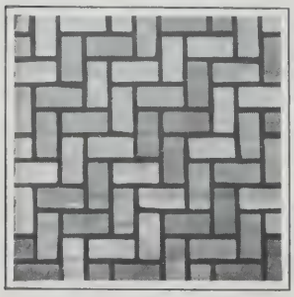
THE NEW NOTE IN LINOLEUM

ELLEN D. WANGNER

Photographs by courtesy of the Armstrong Cork Co., and S. C. Johnson & Son

Wonderful Colors and Designs That Bring a New Floor—Harmonizing Qualities for Any Style or Period of Room or Furnishings

MODERN linoleum can lift the simplest room out of the commonplace because of its wealth of color and the beauty of its designs. At the same time, it is especially fitted for use with the richest hangings and furnishings, enhancing their loveliness.

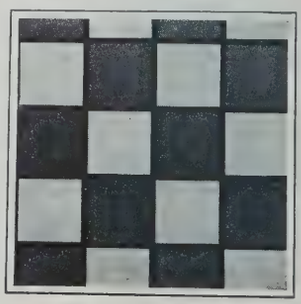


Embossed handcraft tile inlaid that suggests the beauty of real tile

Once the word linoleum suggested only one mental picture, a bathroom or kitchen floor covered with a sort of oilcloth de luxe notable mainly for its long-wearing qualities, cleanliness and stereotyped patterns. To-day it brings entirely different pictures: living rooms, sun parlors, halls, bedrooms and dining rooms made unusual and beautiful with the new linoleums that hold such richness and warmth of color, such loveliness of design as to make this material one of the most attractive of all floors for any home, large or small.

The decorators of the present are stressing the importance of the floor in making a home livable and attractive. They have helped us to realize this and we are no longer accepting just any kind that the builder puts in. We are seeing floors as a background for all the furnishings of the room and are looking to them to aid in providing color and cheer and that indefinable quality called "homelike." Oddly enough, this floor covering once deemed suited only to bathroom or kitchen gives all this to a room. There is a reason.

In the first place, modern linoleum is far



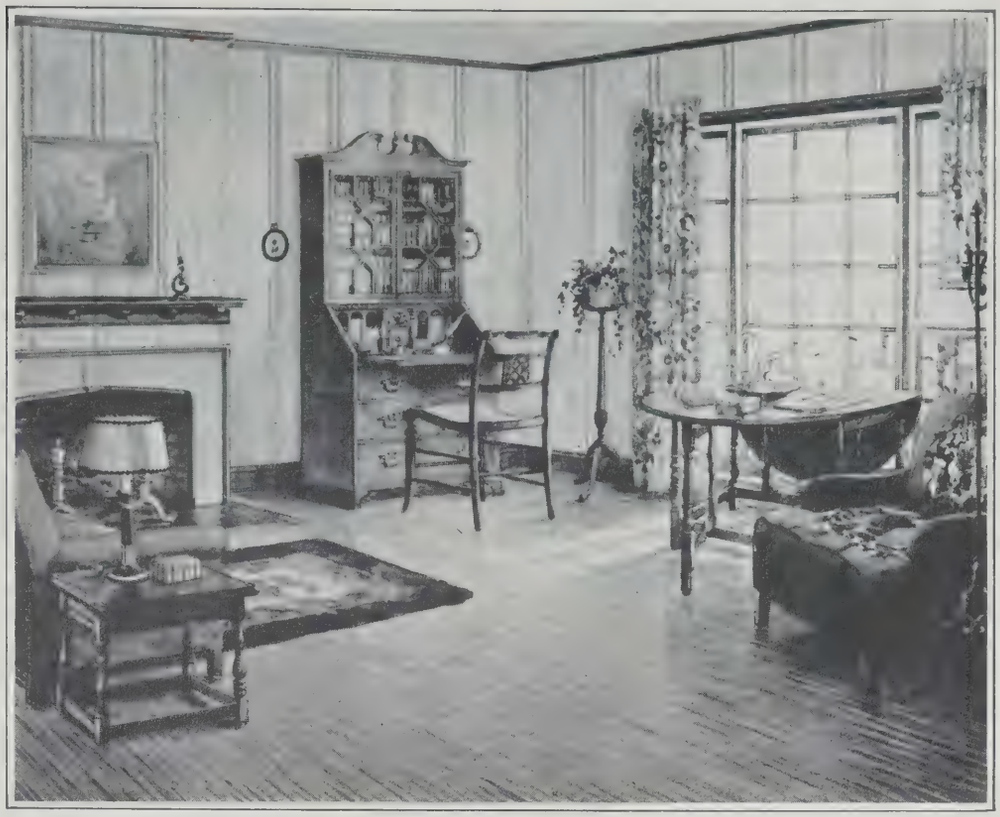
Small-block marble tile inlaid which with plain border is very effective in entrance halls.

from being a cheap article; it is vastly different from the old-time oilcloth. It is made of good materials carefully put together. Its standards of manufacture merit the sterling mark of solid worth. Its colors are blended as carefully as the artist blends those of his palette—and they are of the same quality. For its designs, men have sought all over the world. The tiles of Italy and Spain, parquetry in contrasting woods, the texture and design of the finest Chinese matting, the rare loveliness and graining of marble, the clear plain tones of velvets, all have been studied that their beauty might be duplicated in this new-old floor covering. So well has this been done, so painstakingly have these craftsmen worked that when first shown a floor of embossed handcraft tile linoleum, I felt that I could not have heard aright. This simply could *not* be linoleum, it must be tile! I knelt down to feel of it and the nearer I got, the more my wonder grew! Here was all the irregularity of tile, with quaint motifs placed at odd intervals, the tiles seemingly raised and separated by tan clay or cement. Here were the lights and shades of a real tile floor, the same pleasing unevenness of surface and yet—it was linoleum and needing but an occasional waxing to keep it soft toned and clean. Here was all the beauty of a costly floor with these added advantages: no dirt could collect in it; no dust could come through a crack; it brought no sense of chill as one stepped on it, only warmth and a pleasing resilience. It required no upkeep and would last a lifetime. And that is what the modern linoleum is.

THERE are, however, various grades in this material, as well as variety of design and coloring and it is well to clearly understand something of these, mentioning again the well-known composition of linoluem—linseed oil, ground cork and other ingredients mixed and pressed on burlap. It is also advisable to know of a few simple tests to prove what genuine linoleum is. Look first for the burlap back; then see if it tears readily. If the material you are considering tears easily and does not have a burlap back, it is a substitute.

The first grade is printed linoleum, which is a genuine linoleum with the design stamped or printed on the surface. The edge of this grade is always brown.

The next grade is inlaid which has the pattern and colors through the depth of the material to the burlap back. In this, the design will remain true and clear as long as there is a piece left. (And it lasts, by the way, about 50 years.) There are many of these inlaid styles—"Straight Line"; where the pattern is not sharply defined; "Jaspé" that gets its name from a species of quartz and has, like quartz, no definite pattern, only a fine graining; "Marble Inlaid" with all the beauty of a marble floor. This may be had in both large and small black and white blocks, or in tones of green or brown, either clear or with the veining of marble. These patterns are very smart for halls and dining rooms, especially if a plain border be used with them.



The two-toned Jaspé linoleum on this floor gives just the right background for its early Colonial furniture

There are also "Parquetry Inlaids" reproducing the design and colors of wood floors, "Inset Tile Moulded" as well as the unusual handcraft tile already mentioned, all of these in a wealth of tone and design to harmonize with any color plan.

There is still another class, "Battleship" linoleum. In the lighter weights in plain colors, this gives a charming effect in a bedroom or in any room requiring a plain background with color. In fact, so carefully have the various uses and possibilities of this ma-

Nothing could be more suitable for this sunny breakfast room than this embossed handcraft tile linoleum which has lifted the room out of the commonplace and given it character and distinction

terial been studied by its manufacturers that there is no style or period of either a house or a room that has not had choice designs and colors worked out for it.

From the very composition of linoleum, many of its predominant qualities may be understood; its wearability, ease of cleaning, that it can hold no dust nor allow any to come through from rooms below. (This also cuts the coal bill since it permits no drafts.) Then there is the factor of sanitation since it absorbs neither grease nor moisture; also the sound-deadening quality and the resiliency that makes it easy to walk or stand upon.

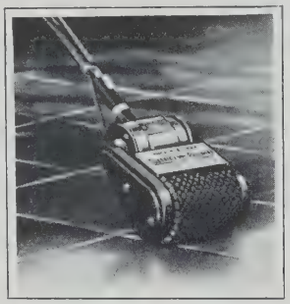
There are other qualities not thought of unless one has been so fortunate as to see a room with this material on the floor. This was exemplified in two living rooms furnished and decorated exactly alike. The walls were of tan plaster stippled with mauve, woodwork of darker shade; glass curtains of rose and black striped silk net; over-draperies of glazed chintz in mauve, tan rose and dull green; Oriental rug.

The first with its light tan floor such as seen in so many countless homes, was merely a well-done room. The second, where the only change was in using a deep rich brown Jaspé linoleum holding almost golden streaks in it, sprang into life, rich, vivid life, every tone in the draperies and upholstery counting. There was the same harmony, the same simplicity, but this second room had striking personality and character.

One of the most pleasing features in using linoleum is that it can run unbroken through doorways and into closets, leaving no break to catch dust or dirt. It can be cut to pattern to fit a winding hall or one with a turn in it and this without seams, making a most desirable floor.

The word floor instead of floor-covering is used advisedly, for where it is properly laid, it ceases to be merely a decorative material and becomes part of the structural composition.

THERE is a right way to lay linoleum. It is wrong to trim it to fit close to the walls and then tack or brad it down. Where the edges meet at seams, it is apt to buckle so that both moisture and dirt will gather under the material. Moreover, the wood in any floor is constantly changing, swelling in damp weather causing the linoleum to crack or split. In hot weather, the floor contracts, and the covering bulges. If the linoleum be cemented to the floor this same pulling and working of the floor causes cracks and breaks.



With this electric floor polisher a linoleum floor can be given a soft waxed finish with a modicum of effort

The Dutch tile pattern of this inlaid linoleum floor lends just the right decorative note to this room in the home of Mrs. E. F. Lilley, Milford, Mass.

The correct method is to use a lining felt between the linoleum and the floor. This felt is pasted to the floor and the linoleum cemented on top of it with waterproof cement. The fibres of the felt next to the wood, allow the floor to shrink or expand at will without disturbing the top layer at all, with the result that the linoleum "stays put." There is an added value to this method in that it makes the house much warmer and permits the linoleum to be readily taken up if one desires.

With the floor properly laid, comes the delight of caring for it. Linoleum should never be washed with a strong alkali soap. The best way to bring out all its loveliness is by waxing. And there is a right way and a wrong way of doing this. Wax should be sparingly used, then allowed to dry and polished thoroughly until none can be rubbed off. If marks show on a waxed floor, it proves that too much has been used and that it has not been rubbed in well. Just a film of wax should be put on at one time. This building up of a wax finish should be persisted in until a firm, hard surface is secured that needs but an occasional going over to keep it soft toned yet lustrous. This hard finish will grow with the years becoming more beautiful as time goes on. Certain traffic points in the room will need extra care, but as one learns the art of waxing, these spots can be skilfully taken care of. Even muddy footprints from little feet can be wiped off easily with a damp cloth as neither water nor dirt will be able to penetrate this finish.

Even the remaking of the old house has received attention and it is possible to give old worn stairways a new claim to beauty by covering them with specially designed linoleum with wood "nosings" at the edge of the treads. And of course, the old worn or disfigured floors may be easily given new life and distinction with this material.

Nor is this all. So sure are the makers of these products that in their use lies the solution of many a decorative problem that they maintain staffs of decorators who will work out color schemes for any room, or for an entire house for that matter, sending reproduction-samples of the linoleum fitted to each room as well as samples of wall paper and draperies needed to produce just the desired effect. *And this without charge!*

To show what this may mean to the woman who desires to have her new home harmonious throughout, we give as an example, the specification for the living room of a Colonial house.

"Living-room: Floor, gray jaspé. Walls, Colonial gray and white landscape wallpaper. Gray baseboard. Draperies, striped taffeta in shades of dull coral pink, dull blue, and gold. Oriental rug," samples of all being sent.

And these are some of the new notes in modern linoleum.

FOURTH ANNUAL NATIONAL GARDEN WEEK, APRIL 18th-25th, 1926

WHAT *ARE* THE BEST ROSES?

J. HORACE McFARLAND

Editor *American Rose Annual*

Selections Vary According to Where You Live and What Your Ideals May Be

THIS is the hard question the Editor asks me. I think he was smiling when he dictated the question, because he knew it could not be answered in any very definite fashion. Nor, indeed, am I sure that it should be! I can, however, make a really definite endeavor, not to say what I think about the question, but to say what the numerous members of the American Rose Society who are willing to write me from all parts of the nation think about it.

The best Roses for America would be those that do best in the most places, according to such testimony as may be obtained. This great country of ours, with its land width equal to the width of the Atlantic Ocean and its range of latitude from the sub-tropics to well up toward the Arctic Circle, to say nothing of Alaska, Hawaii, Porto Rico and the Philippines, presents so vast a variety of soil, climate, elevation, rainfall, and relative humidity, that it would be absolutely safe, in describing Roses that would do well everywhere, to suggest that they be made not even of cast-iron but of gold-plated bronze, immune to wind and weather!

FOR three years reports have been asked for and obtained from all parts of America as to what Roses have flourished. Taking the sum of these reports for the whole nation, and for the three years, it is found that the twelve most favored Hybrid-teas are:

Ophelia	Red Radiance
Radiance	Columbia
Gruss an Teplitz	Mme. Edouard Herriot
Los Angeles	Kaiserin Auguste Viktoria
Mrs. Aaron Ward	Mme. Butterfly
Duchess of Wellington	Mme. Caroline Testout

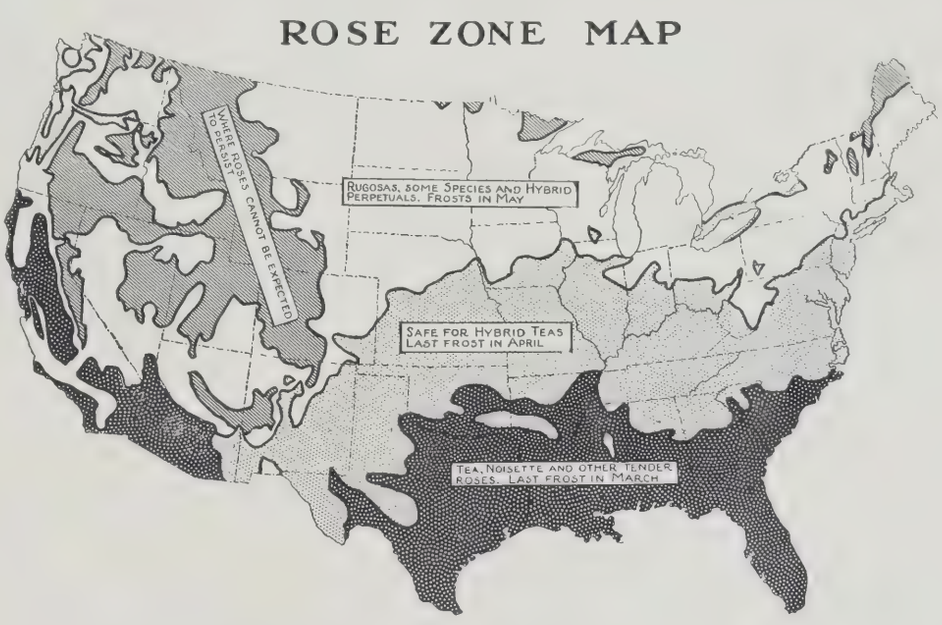
Any discussion of the best Roses that ignores the Hardy Climbers would be futile, because, as I see it, these are more desirable on the whole than the Hybrid-teas, despite the fact that the latter have a reputation of being continuous bloomers, and do sometimes supply flowers through a long growing season. The Hardy Climbers give the grand June burst which makes that month the most beautiful month of the year. The best twelve which the American Rose Society members have picked out, looking over the whole country, are:

Dr. W. Van Fleet	Tausendschon
Silver Moon	Excelsa
American Pillar	Gardenia
Paul's Scarlet Climber	Christine Wright
Dorothy Perkins	Hiawatha
Climbing American Beauty	Crimson Rambler

Now any such discussion of a general nature is interesting but not very important. To be really helpful we must take account of the different climatic conditions and the different reactions to frost and rainfall. There were set up, therefore, seven districts, and the responses from the whole country were sorted into these seven districts so that we might discover what seemed to be the preferences of those who reported from each section.

The accompanying map page shows these districts in as graphic a fashion as practicable, and indicates what Roses have done well for the reporting members of the American Rose Society in those districts, as to the twelve preferred Hybrid-teas, the twelve preferred Hardy Climbers, and, as an additional and important adjunct, the half-dozen best not so classified. All these, with one or two exceptions, are the old and splendid Hybrid-perpetuals, which are the Roses that we ought to be growing and improving now rather than continually running after the Hybrid-teas, which need so much coddling and petting.

The statements above are given in order of preference rather than in alphabetical order, which order is in itself significant.


ROSE ZONE MAP
WHERE ROSES CANNOT BE EXPECTED
RUGOSAS, SOME SPECIES AND HYBRID PERPETUALS. FROSTS IN MAY
SAFE FOR HYBRID TEAS LAST FROST IN APRIL
TEA, NOISETTE AND OTHER TENDER ROSES. LAST FROST IN MARCH

Showing the climatic zones of the country regarded from the rosarian's standpoint

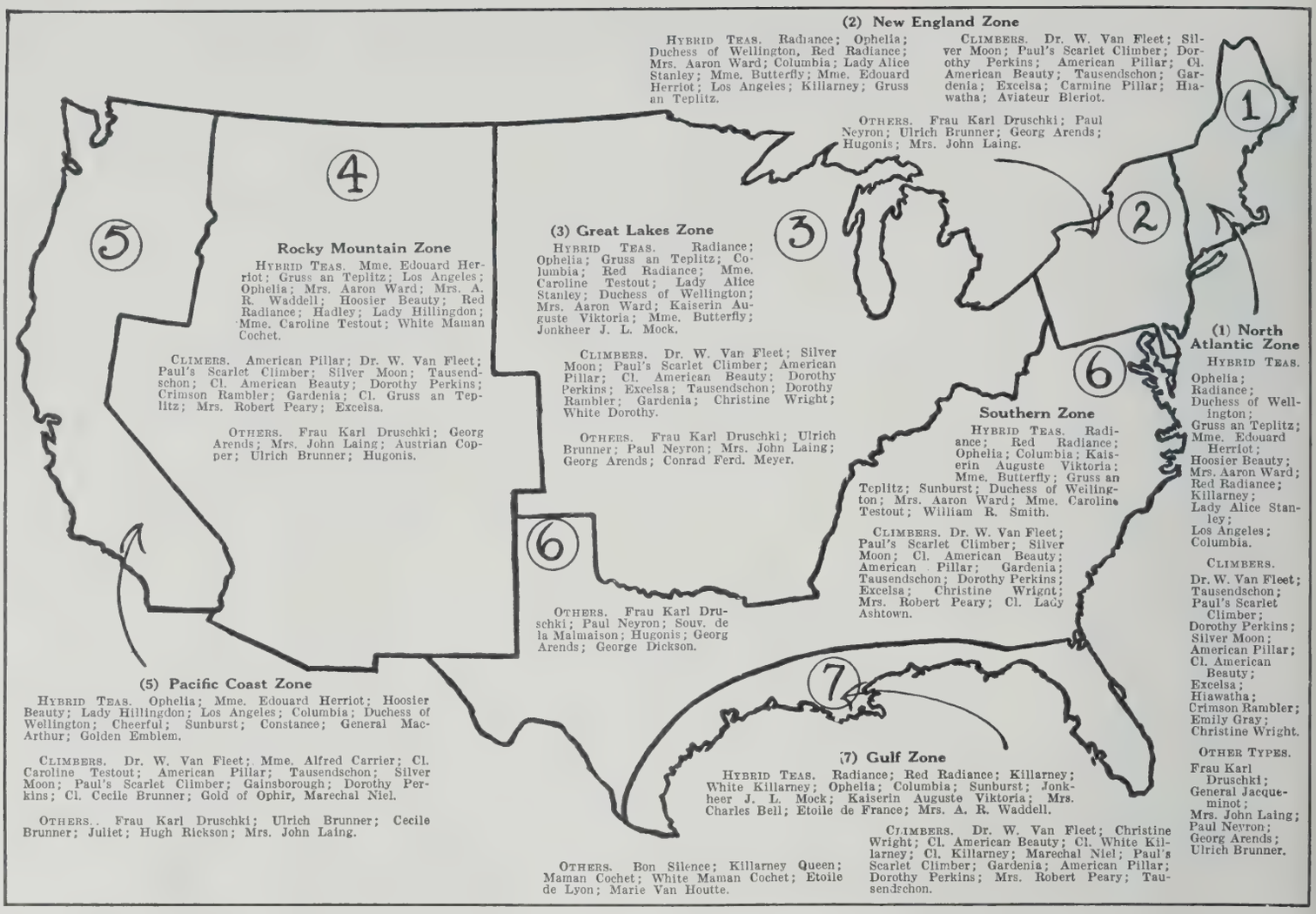
PERSONAL FANCY A FACTOR

AFTER all, the decision as to what Roses are really best for any particular place or use depends much on the Rose ideals of the grower thereof. It is fair to inquire, therefore, in that direction.

Is the grower thinking only of continuous bloom, with little regard to form of plant or the covering of the ground which makes a garden beautiful? If he is, he ought to be growing the Teas, where they are hardy; and the Hybrid-teas where he must have these; scraggly as most of them are. These will give, not more blooms in a year but more continuous, or rather recurrent, blooms in a season. The fine scarlet-crimson variety, Gruss an Teplitz, for example, is probably the top of this list, for much of the territory, for it blooms nearly all of the time and its bush is much more respectable than the average. The superb American variety, Radiance, and its sports into red and lighter pink, Red Radiance and Mrs. Charles Bell, would stand with the first-named Rose in this respect, being even sturdier in growth and more widely adaptable.

The late President Roosevelt loved best of all an old, old Tea Rose, Duchesse de Brabant, because he said it reminded him of his mother, and also, I think, because it bloomed constantly and its blooms were quiet and modest and close to the ground. Between these two ideals as to growth is every variety of color, form, fragrance, and beauty of flower, and, alas, every variety of "scraggliness" of form and habit.

Is this "best" Rose the one in the garden that is a good-looking object most of the year, and a particular glory when in bloom? In that event nothing can excel the scentless white purity of Frau Karl Druschki, the pink loveliness of George Arends, the crimson sweetness of General Jacqueminot. Properly pruned


(2) New England Zone
HYBRID TEAS. Radiance; Ophelia; Duchess of Wellington, Red Radiance; Mrs. Aaron Ward; Columbia; Lady Alice Stanley; Mme. Butterfly; Mme. Edouard Herriot; Los Angeles; Killarney; Gruss an Teplitz.
CLIMBERS. Dr. W. Van Fleet; Silver Moon; Paul's Scarlet Climber; Dorothy Perkins; American Pillar; Cl. American Beauty; Tausendschon; Gardenia; Excelsa; Carmine Pillar; Hiawatha; Aviateur Bleriot.
OTHERS. Frau Karl Druschki; Paul Neyron; Ulrich Brunner; Georg Arends; Hugonis; Mrs. John Laing.
Rocky Mountain Zone
HYBRID TEAS. Mme. Edouard Herriot; Gruss an Teplitz; Los Angeles; Ophelia; Mrs. Aaron Ward; Mrs. A. R. Waddell; Hoosier Beauty; Red Radiance; Hadley; Lady Hillingdon; Mme. Caroline Testout; White Maman Cochet.
CLIMBERS. American Pillar; Dr. W. Van Fleet; Paul's Scarlet Climber; Silver Moon; Tausendschon; Cl. American Beauty; Dorothy Perkins; Crimson Rambler; Gardenia; Cl. Gruss an Teplitz; Mrs. Robert Peary; Excelsa.
OTHERS. Frau Karl Druschki; Georg Arends; Mrs. John Laing; Austrian Copper; Ulrich Brunner; Hugonis.
(3) Great Lakes Zone
HYBRID TEAS. Radiance; Ophelia; Gruss an Teplitz; Columbia; Red Radiance; Mme. Caroline Testout; Lady Alice Stanley; Duchess of Wellington; Mrs. Aaron Ward; Kaiserin Auguste Viktoria; Mme. Butterfly; Jonkheer J. L. Mock.
CLIMBERS. Dr. W. Van Fleet; Silver Moon; Paul's Scarlet Climber; American Pillar; Cl. American Beauty; Dorothy Perkins; Excelsa; Tausendschon; Dorothy Rambler; Gardenia; Christine Wright; White Dorothy.
OTHERS. Frau Karl Druschki; Ulrich Brunner; Paul Neyron; Mrs. John Laing; Georg Arends; Conrad Ferd. Meyer.
(1) North Atlantic Zone
HYBRID TEAS. Ophelia; Radiance; Duchess of Wellington; Gruss an Teplitz; Mme. Edouard Herriot; Hoosier Beauty; Mrs. Aaron Ward; Red Radiance; Killarney; Lady Alice Stanley; Los Angeles; Columbia.
CLIMBERS. Dr. W. Van Fleet; Tausendschon; Paul's Scarlet Climber; Dorothy Perkins; Silver Moon; American Pillar; Cl. American Beauty; Excelsa; Hiawatha; Crimson Rambler; Emily Gray; Christine Wright.
OTHER TYPES. Frau Karl Druschki; General Jacqueminot; Mrs. John Laing; Paul Neyron; Georg Arends; Ulrich Brunner.
Southern Zone
HYBRID TEAS. Radiance; Red Radiance; Ophelia; Columbia; Kaiserin Auguste Viktoria; Mme. Butterfly; Gruss an Teplitz; Sunburst; Duchess of Wellington; Mrs. Aaron Ward; Mme. Caroline Testout; William R. Smith.
CLIMBERS. Dr. W. Van Fleet; Paul's Scarlet Climber; Silver Moon; Cl. American Beauty; American Pillar; Gardenia; Tausendschon; Dorothy Perkins; Excelsa; Christine Wright; Mrs. Robert Peary; Cl. Lady Ashtown.
OTHERS. Frau Karl Druschki; Paul Neyron; Souv. de la Malmaison; Hugonis; Georg Arends; George Dickson.
(5) Pacific Coast Zone
HYBRID TEAS. Ophelia; Mme. Edouard Herriot; Hoosier Beauty; Lady Hillingdon; Los Angeles; Columbia; Duchess of Wellington; Cheerful; Sunburst; Constance; General MacArthur; Golden Emblem.
CLIMBERS. Dr. W. Van Fleet; Mme. Alfred Carrier; Cl. Caroline Testout; American Pillar; Tausendschon; Silver Moon; Paul's Scarlet Climber; Gainsborough; Dorothy Perkins; Cl. Cecile Brunner; Gold of Ophir, Marechal Niel.
OTHERS. Frau Karl Druschki; Ulrich Brunner; Cecile Brunner; Juliet; Hugh Rickson; Mrs. John Laing.
(7) Gulf Zone
HYBRID TEAS. Radiance; Red Radiance; Killarney; White Killarney; Ophelia; Columbia; Sunburst; Jonkheer J. L. Mock; Kaiserin Auguste Viktoria; Mrs. Charles Bell; Etoile de France; Mrs. A. R. Waddell.
CLIMBERS. Dr. W. Van Fleet; Christine Wright; Cl. American Beauty; Cl. White Killarney; Cl. Killarney; Marechal Niel; Paul's Scarlet Climber; Gardenia; American Pillar; Dorothy Perkins; Mrs. Robert Peary; Tausendschon.
OTHERS. Bon Silence; Killarney Queen; Maman Cochet; White Maman Cochet; Etoile de Lyon; Marie Van Houtte.

If you are a beginner and want results make your selections from the varieties given above according to the section in which you live. This represents the selections in order of preference by the American Rose Society's membership, revised to last year

these are respectable bushes the year round, and their breath-taking mass of bloom in June justifies any possible care that can be put upon them.

Or in the same line come into view a relatively new handling of a very old group of Roses, including those that are native, or called "wild." These may be put in the shrubbery, along with Lilacs and Spireas and Deutzias and Mockoranges. There they will justify themselves all the time with as good appearance as the average shrub, and glorify themselves in the blooming time with flowers that no other shrub can possibly equal in beauty. Such Roses include the American native Rosa setigera, R. virginiana, and others of that type; the wonderful Chinese hardy exotics, Rosa hugonis, R. zanthina, R. ecæ, and others; the superb new hybrids recently announced in THE GARDEN & HOME BUILDER, as originated by Dr. Van Fleet by combining various merits into the varieties, called Mary Wallace, Heart of Gold, Sarah Van Fleet, and Dr. E. M. Mills; the whole Rugosa group, including such an outstanding and upward-growing husky as Conrad Ferdinand Meyer and its sister, Nova Zembla, together with the easily managed crimson-carnation-blooming hybrid with the ugly name, F. J. Grootendorst.

To this group of increasing importance as people get sense enough not to insist on continuous bloom or recurrent bloom ought to be added the Hybrid Sweetbriers, known as the "Penzance Briers"; a number of remarkable Musk Roses raised by the Rev. Joseph Pemberton in England, and particularly evidenced in the variety Danæ; and the group originated by Captain George C. Thomas, Jr., mostly named with a "Bloomfield" in front, as, for example, Bloomfield Fascination, Bloomfield Rocket, etc., these making outreaching shrubs with flowers sometimes single and with a tendency toward recurrent bloom throughout the season.

Or there may be the ideal in the mind of this inquirer who wants to know what Roses are best of the Hardy Climbers, and then he and I will be "sitting pretty" together, because I am exceedingly fond of these Hardy Climbers, representing as they do an immense advance in Rose beauty and adaptability. These Hardy Climbers, now combined on a mother base either of Rosa multiflora or Rosa wichuraiana, include flowers of purest white to deepest crimson through every intervening shade, and touching fascinatingly upon yellow and bronze, in sizes from little buttons like the frosty type of Chrysanthemum to great, broad, gorgeous, open, double flowers four inches across.

I do not specify about varieties here, because there are so many of them and most of them are so good. All one needs to do is to turn a deaf ear upon the seductions of the archaic salesmen of nursery stock who have ancient plate books and endeavor to buy Roses to fit them; who still sell Queen of the Prairies, which was almost good two generations ago, and Crimson Rambler, which was really good one generation ago. The group of Roses originated by Dr. Van Fleet— Mary Lovett, Alida Lovett, Bess Lovett, Mary Wallace; the group of breath-taking beauty, for which the late M. H. Walsh was responsible, evidenced in Evangeline, Hiawatha, Paradise and Milky Way; and the one uniquely exquisite dark scarlet-crimson sort for which Captain Thomas is responsible, named for his friend Dr. Huey— all these can be treated as climbers, or as pillars, or allowed to scramble into a wonderful effect in the shrubbery border.

Then my inquiring friend may want dwarf Roses that will edge his rose-beds or live in loveliness in a fairly open garden corner. To him have been presented in the last half-generation the gems of the Polyantha class, and in the last half-dozen years in this class come Roses of the utmost beauty and the utmost persistence in bloom. If the inquirer is even halfway reasonable he cannot but be pleased at Ideal, La Marne, Chatillon, Eva Teschendorff, Lafayette Yvonne Rabier, Gruss

an Aachen, Evelyn Thornton, and others in this delightful class.

Frankly I hardly know when to stop, because I happen to love all Roses that are good (—and very few Roses are not good). I have not particularized Paul's Scarlet Climber, which if it is kept from too close contiguity to pink roses will stop any passer-by with its brilliance when it is in its great burst of bloom. I have not said anything about the old, old Provence, Cabbage and Musk Roses now happily coming back into estimation, nor have I said enough about the needed Hybrid-perpetuals, which ought to form the garden backbone.

THE lists above given are a safe basis for the districts they relate to. They are not perfect, because none of us are yet in Heaven, though on a June morning when any of the Roses I have mentioned are yet carrying their crystal dewdrops which the night has given them I don't think Heaven can have very much on the garden where they are. The Roses which I have mentioned, getting into the hands of people who are reasonable and earnest and interested, will make folks happy.

Then there will come to any true rose lover the desire to experiment, and he has the wide world of Rose varieties before him. What if he does buy "ringers" that are nearly like others he has had before? What if everything he gets isn't just as he hoped it would be? He has had the lovely endeavor and the ardent hope, and the disappointment is always less when these precedent efforts have been sincere.

A HALF DOZEN NEWER ROSES IN COMPARISON

REV. SPENCER S. SULLIGER

Honorary Vice-President American Rose Society

LATE in the fall of 1923, I received through the agency of a well known rose grower in California six fine bushes for a trying-out in my rose test garden, the varieties being Etoile de Feu, Una Wallace, Mrs. Henry Morse, Lulu, Padre, Mable Morse. They were planted in accordance with, "How I Plant My Roses," in the GARDEN & HOME BUILDER, October, 1924, p. 128, and it is almost needless to state to the careful, intelligent reader that instead of twelve *inches* of sheep guano, as the typo made me say at that time, I used twelve *ounces*.

The seasons of 1924 and 1925 were exceptionally good for Roses. Having only one plant of each variety prevented any comparison of pruning systems, disbudding, spraying, methods, etc.

ETOILE DE FEU. (Pernet-Ducher, 1921.) An attractive color even among the many fancy combination colors of some of the late Roses. To call it a coral-salmon, flushed with flame; or coral-red, shaded with chrome yellow; or coppery-scarlet, with flushing of yellow at base of petals; or salmon-pink and coral-red, shaded with flame tint, is to say that it is much like Louise Catherine Breslau—and it is. But Etoile de Feu was a more prolific and a more constant bloomer, being rarely ever without a few blooms during the whole blooming season. I cut an almost faultless, half-open bloom on December 1, 1925, but the color was almost pure yellow, zoned orange at the base of petals. For a double Rose the petalage is low, being only 32 to 35, but the full blown flower is very attractive and distinct in the arrangement of petals. The substance of petals is soft and, therefore, the bloom does not last long unless cut when the bud is just opening. The foliage is a very attractive and beautiful bronze-green, especially fine in the fall.

UNA WALLACE. (McGredy, 1922.) Its well-formed bloom, of beautifully attractive cherry-rose color—which could also be described as bright old-rose—is supported by an almost faultless, symmetrical, high growth of bush and extra good foliage. Lasts well when cut and furnishes extra long stems. Its delightful fragrance, attractive and distinct color; abundance, size and form of bloom; and long growth of stems, make this very desirable for exhibition, garden decoration or for cutting. Said to be subject to mildew.

H. T. ROSE MABEL MORSE, CLEAR YELLOW

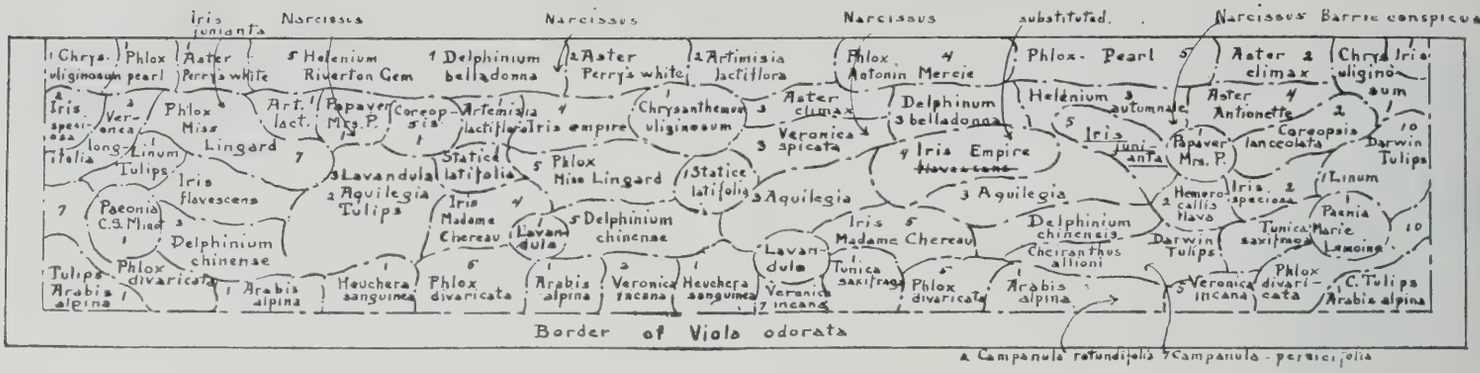
Outstanding among the new varieties. Bloom grown by C. G. Ottey, Seattle, Wash. Half open bloom cut Oct. 7, 1924, photographed three days later; 4½ inches in diameter. Grown on own brier, half standard

MRS. HENRY MORSE. (McGredy, 1919.) The clear, cheery rose color, with vermilion shading and veining of the petals; the abundant petalage, with depth and substance not equalled by many Roses; the size and desirable form of flower, furnished from this Rose some of the most attractive blooms I cut from my garden in both 1924 and 1925. The growth of the bush is uniform, but not high, while the foliage is abundant and also attractive in color and form. If well grown, as to proper feeding, cultivating, pruning and disbudding, Mrs. Henry Morse will stand well. Said to be subject to mildew.

LULU. (Easlea. 1919.) This is an attractive garden Rose, for its color and because of its extra long bud (said to be the longest bud of any Rose up to the present time). In bud the color could be classed as a coppery-yellow, in full bloom it is a delicate pink, with orange and salmon shading at base of petals. It is semi-double, and, in the summer months, does not last long when cut. On November 16 last, I cut a small branch from Lulu—one just opened bloom and two half-opened buds. While the half-opened bloom was not as long as usual—being only two inches long—it was almost perfect in form and with foliage well-nigh faultless. It lasted for 48 hours before it fully expanded and then kept its color for 48 hours longer. To-day, December 5, there are a number of good buds on the bush.

(Continued on page 80)

Second Prize Plan by Miss Norma F. Bankhardt, Cincinnati, Ohio.



AN OLD FASHIONED

Plans That Will Fit Your Own Garden

THE FLOWERS IN THEIR SEASONS

APRIL

Arabis alpina
Cottage Tulips
Viola odorata
Viola tricolor
Narcissus

MAY

Arabis alpina
Aquilegia chrysantha
Cottage Tulips
Cheiranthus allioni
Darwin Tulips
Hemerocallis flava
Myosotis alpestris
Papaver nudicaule
Phlox divaricata
Viola odorata
Viola tricolor

JUNE

Aquilegia chrysantha
Aquilegia hybrids
Cheiranthus allioni
Coreopsis lanceolata
Darwin Tulips
Delphinium belladonna
Delphinium chinense
Heuchera sanguinea
Hemerocallis flava
Iris flavescens
Empire
Juniata
Speciosa
Madame Chereau
Linum narbonnense
Myosotis alpestris
Paeonia
Papaver Mrs. Perry
nudicaule
Phlox divaricata
Veronica incana
Viola tricolor

JULY

Aquilegia chrysantha
Aquilegia hybrids
Cheiranthus allioni
Coreopsis lanceolata
Delphinium belladonna
Delphinium chinense
Heuchera sanguinea
Linum narbonnense
Lavandula spicata
Papaver nudicaule
Phlox Miss Lingard
Tunica saxifraga
Veronica incana
spicata
Viola tricolor

AUGUST

Artemisia lactiflora
Chrysanthemum uliginosum
Coreopsis lanceolata
Delphinium chinense
Helenium Riverton Gem
autumnale
Heuchera sanguinea
Linum narbonnense
Lavandula spicata
Phlox Antonin Mercie
Pearl
Statice latifolia
Veronica longifolia
Viola tricolor

SEPTEMBER

Artemisia lactiflora
Aster Climax
Antoinette
Perry's White
Chrysanthemum uliginosum
Coreopsis lanceolata
Delphinium belladonna
Delphinium chinense
Heuchera sanguinea
Helenium Riverton Gem
autumnale
Linum narbonnense
Papaver nudicaule
Statice latifolia
Tunica saxifraga
Veronica longifolia
Viola tricolor

NOTE: Myosotis alpestris, blue and white; Viola tricolor, and Papaver nudicaule. are used as fillers.
Cottage Tulips: John Ruskin, Orange King.
Darwin Tulips: Clara Butt, Valentine, Melicette, and mixed.

In spring and early summer the fall-planted bulbs saved the day

THE possible variations in the design and make-up of a border of hardy herbaceous plants are surely beyond human calculation. Possibly no border ever planted achieved the ideal of the designer for there are uncontrollable variable factors—season, weather, to say nothing of soil, site, situation, and environment. It is this constant striving for the elusive ideal—this border of our dreams—that is one source of the constant interest in the hardy herbaceous border. Its enduring nature is another interesting factor; but beyond all is the very evident fact that the border in being always attains individuality that is entirely apart from any preconceived picture of the creator.

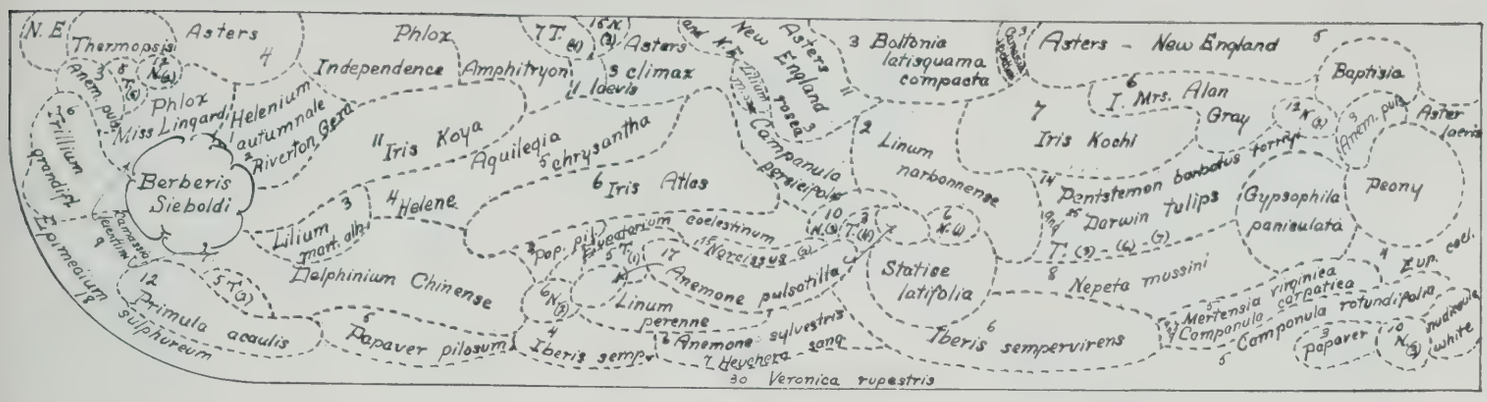
Old fashioned, we call it, meaning orderly disorderliness, luxury and mass of color. The actual things that we use to-day are great improvements from those of our grandmother's time. The flowers are bigger, brighter. The plants often more floriferous, and we have a wealth of material that was not in existence in an older age.

An interesting experiment was given to a class of the Lowthorpe School of Landscape Architecture for Women in the fall of 1924, and as a result the gardens came into being during 1925, and we are privileged to give our readers the benefit of the planting schemes then made.

An old border backed by a hedge was taken and split up into sections and each student was given one section to design and plant—a 26 ft. strip 6 ft. wide. The problem was to plan and present a border the cost of which was to range between $50 and $100, and accompanying these notes are the two premier plans in the contest. The work was done under the supervision of Miss Isabella Pendleton and Mr. Robert S. Sturtevant of the faculty, both professional landscape architects of recognized ability. The following comments are by Mr. Sturtevant:

The greater part of the planting was completed in October and throughout the fol-

Winning Plan by Miss Lilian Egleston, Elizabeth, N. J.



ERENNIAL BORDER

Give Bloom All Through the Season

lowing year the borders were judged as to condition and beauty of effect. Owing probably to the initial criticism, the results were good in general effect and in the succession of bloom. There were some unusual groupings of high merit and a number of fundamental principles were clearly exemplified.

Design, from the professional point of view, was brought out by the tasteful arrangement of a rather restricted variety of material in drifts and spots of varying size. There was distinct interest of foliage, color, texture, and mass—the gradation of height varied but including no tall blocks of planting. This interest was as apparent during the season as it was on the plan itself. (See the winning plan.)

Effect as evidenced by continuity and mass of flower color was produced by the use of a wide variety of material arranged in areas of similar shape and size and the result was extremely good.

The considered treatment of edges proved very worthwhile. A distinct edging of Violets or of Grape Hyacinths followed by Sweet Alyssum served admirably to define the path but did not prove an attractive transition from the straight line of the path to the irregular massing of perennials behind. A path clearly requires a boundary but the planted edge should perform its other purpose—the development of a pleasing gradation from the flat path to the upright perennials.

In a border six feet in width, six foot spires are attractive, but blocks of six foot Hollyhocks, Delphiniums, or Asters tend to crowd and encroach upon the path to an unpleasant extent.

A perennial border is a distinct problem in design. It may be solved rather mechanically by stuffing the area with everything available for succession of bloom. But it may also be solved artistically by the careful placing of a restricted variety of material selected to bring out the principles of balance and harmony inherent to any composition of intrinsic beauty.

Incidentally our experience proved that, for a temporary perennial border of this sort, the more permanent perennials such as Peonies, Lilies, Gypsophila, etc., were of little use. Without spring bulbs and some annuals, a newly planted border is rarely satisfactory unless established clumps of the large things and a thick planting of the smaller things is possible.

What the Months Give in Bloom

EARLY SPRING to MAY 7

Anemone pulsatilla
Camassia leichtlini
Epimedium sulphureum
Iberis sempervirens
Mertensia virginica
Myosotis alpestris
Papaver nudicaule—white
Primula acaulis and hybrids
Trillium grandiflorum

MAY 7 to JUNE 15

Anemone sylvestris
Aquilegia chrysantha
Helene
Baptisia australis
Heuchera sanguinea
Iris Atlas
Kochi
Koya
Mrs. Alan Gray
Linum perenne
Narcissus W. P. Milner
pale yellow
poeticus
Nepeta mussini
Papaver pilosum
Tulips kaufmanniana
(1) type
Cottage (late
(2) The Fawn
Darwin
(3) Clara Butt
(4) Bartigon
(5) Melicette
(6) Mrs. Potter Palmer
(7) Blue Mixture
Veronica rupestris

JUNE 15 to AUGUST 1

Campanulas: carpatica, white
persicifolia, blue and white
rotundifolia
Delphinium chinense
Gypsophila paniculata
Lilium martagon album
monadelphum szovitzianum
Linum narbonnense
Pentstemon barbatus torreyi
Phlox Miss Lingard
Thermopsis caroliniana

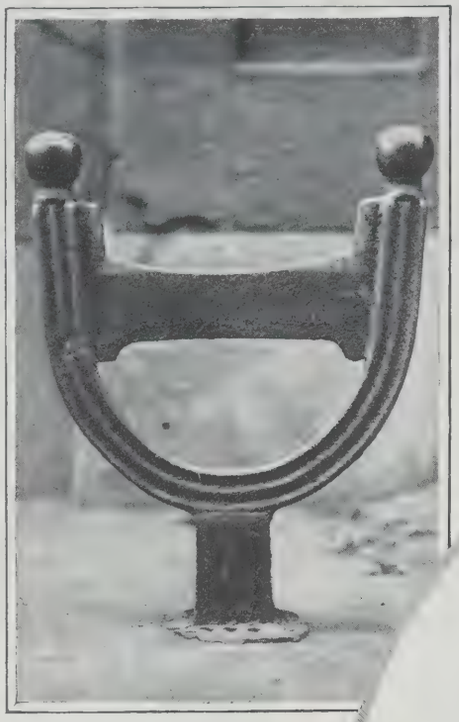
AUGUST

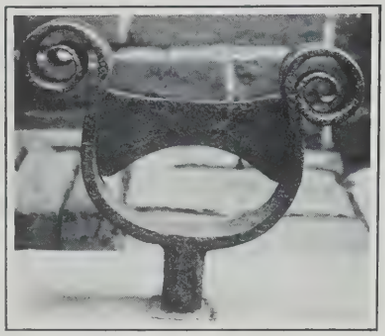
Phlox Amphitryon
Phlox Independence
Statice latifolia
Annuals, various
Biennials, various
Gladiolus
Montbretias

SEPTEMBER—OCTOBER

Asters Climax
laevis
novae-angliae
novae-angliae roseus
Boltonia latisquama compacta
Eupatorium coelestinum
Helenium autumnale
Riverton Gem

The midsummer picture was colorful and practical. This photograph was made in June

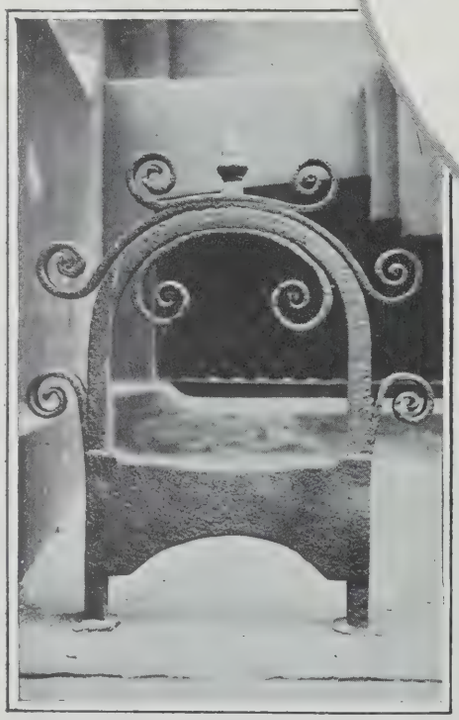




Footscrapers of Old Design for Modern Homes

Though progress has robbed the modern doorstep of its one-time actual need of footscrapers, no march of time or custom can ever take from it the charm and romance lent to even the simplest entrance by these quaint and often useful accessories

Photographs by
PHILIP B. WALLACE



CHILDREN IN THE GARDEN

By

PENELOPE BALDWIN

HOW charming it sounds! Yet how few gardens there are that show any sign of welcome to the little folk! The sign is much more likely to say "keep out." In a recent issue of this magazine, I was delighted to find a play-ground shown in one of the "Little Garden" plans. I think every garden, big or little, should have its play place for the children—a place all their own, undisturbed by grown-ups and cleaner-ups. It may be entirely hidden from view by attractive flowering shrubs.

With a little forethought, one may raise flowers and vegetables and children all comfortably together in even a very small garden. We find it advisable to take the line of least resistance wherever and whenever possible, and to let the garden develop slowly and naturally. Children, like animals, make trails which they instinctively follow. Just why they go just where they do is not for us grown-ups to know. It took but one season of waiting to show us these trails; then we knew where it would be safe to plant flowers and where they would be in danger of scampering feet. It was really the children themselves who all unconsciously in their play, planned our garden for us. We knew, of course, that they would be bound to squeeze through the hedge somewhere into the neighboring yard. So we wisely made a little gateway in a convenient place. But we were not wise enough.

Never, by any chance, did they use our gateway—always they went through another place, and always the same place. Now it happened that we wanted a flower bed just there, because of the view from the porch. I suppose we might have warned and threatened—good discipline, some may say—but we wanted our garden for pleasure. So we took the line of least resistance: we closed the gate made by the grown-ups and we opened the gate made by the children, and across the flower bed we laid stepping stones. The children were delighted, and so were we. And as even the littlest child will carefully go on stepping stones if stepping stones there be, our problem was solved and our garden improved. The choicest bulbs and perennials bloom close by the trail, as safe as though protected by a fence.

Like so many suburban dwellers of to-day, we have been happily engaged, since building our home three years ago, in transforming our yard into a garden. Our lot isn't nearly as large as we wish it were. We can only have a little garden. So our play-ground is small—small in size, but large in importance in the play life of our children and their comrades. It is their own "estate." There, screened by the shrubbery, they are free to build the castles of their fancy. They actually do build the most remarkable shacks, that serve as forts, battleships, pirates' caves, and courts of justice. They have a Council Rock where mysterious meetings are held. They have a pool with a bridge across it and ships to sail on it. They have wonderful circuses and plays and fairs, and they dig deep holes just for the joy of digging. The children have a Highway of their own too. It runs from the play-ground across the garden to the garage. Oh, the joy of that Highway! Sometimes it is a gravel road, and sometimes a road of stone; but best of all, the country road with plenty of mud and deep ruts, where one gets stuck in one's "car," and the neighbors come with ropes and with chains to pull one out again. Having a roadway of their own, the children never think of driving their wagons and automobiles across the grass. There's no sign of the little road from the house or from the street, because it lies directly behind a thick high hedge of Raspberries. If you know the difference between raspberries picked fresh for breakfast with the dew still on them, and raspberries from market, dumped out of their squashy baskets and washed, you will know how we love that Raspberry hedge.

OF COURSE our children have a work shop. It's in the garage. One needs but a few extra feet in width and in depth, in order to have a shop. There's a work bench, a big box for odds and ends of wood, shelves for paints, etc., and a cabinet and many nails and hooks for tools. The children are given really good tools as they are able to handle and care for them, never toy ones that bend and break. They have all the lumber they want. A white parking line painted on the floor, marks the space that is to be kept free for the car. It's absolutely "against the law" to leave anything inside that line. If the law is broken it means a "fine," and it's surprising how seldom the law is broken. During the three years that we have had the shop, we have picked up nails in our tires but twice; surely not a high price to pay for countless profitable hours. There's always something to do on rainy days for there's the "Good Luck Work Shop," as the children call it, where one may work practically out of doors and yet sheltered from the storm. One corner of the shop is reserved especially for the garden tools.

It was a temptation to make wide flower beds along the sides of the garage—it's such a good place for flowers. But it's a still better place for play. Indians go creeping around it, hidden by the friendly walls; robbers lie in ambush just around the corner; players of hide-and-seek flash out of sight behind it. I'm glad we left the little lanes clear. A group of hardy shrubs, thoughtfully placed, is pleasant to look upon and useful for play, and we found that Woodbine grows very well planted close against the walls. It has almost covered the garage, and not only looks beautiful, but is a great attraction to the birds.

WE TRY to make our garden a friendly one for the birds, both in summer and in winter. There are bird houses and feeding tables, nest shelters and supply stations, which the children have made, and always fresh cool water in the bird bath. And always tree guards to keep the cats out of the trees where the birds are nesting. Of course the shyer birds do not stay, though we have many an interesting visit from them; but the wrens and robins, song sparrows and chippies, mocking birds, woodpeckers, cat birds, and most surprising of all, the wood thrushes stay with us all summer. They soon learn that they have nothing to fear from the children. Indeed I sometimes think that the robins quite

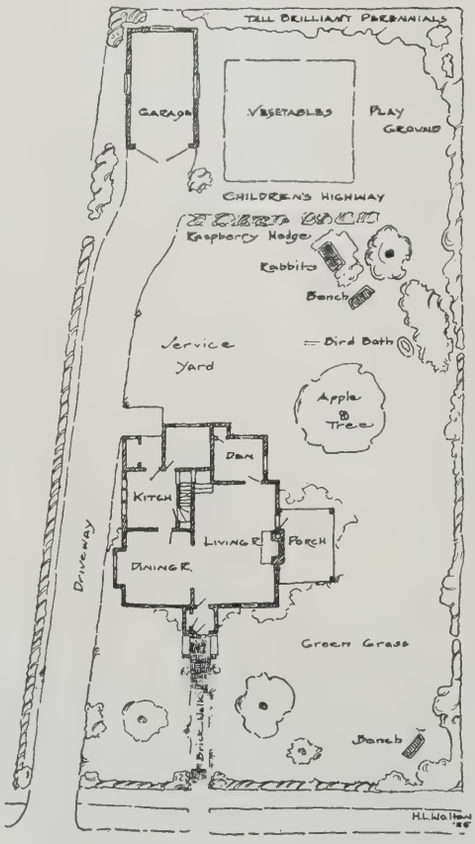
This is the pool the children made, where miniature naval battles are often waged

enjoy the attention they get, and are pleased to have an audience. One year, a pair of mourning doves made their nest in our Crabapple tree. In autumn, flocks of snow birds and tufted tits come to join the cardinals and mocking birds who spend the winter with us. The birds are a very important part of our garden.

OUR vegetable patch at present belongs to the children: it's part of their education. Little children love to "help" with the garden, middle-sized children want a garden of their own, and by the time they are big children, big enough to manage by themselves, the chances are they are no longer interested in growing vegetables. They are looking for new fields to conquer. When that time comes, Daddy may plant and potter in perfect peace. But until that time comes, the time and trouble spent working with the children in the garden is time and trouble well spent indeed, for "there's a magic in it." Experience, and the help of a good garden magazine, soon taught us just which vegetables were the most worth while for us to grow. The children had a bit of ground for experimenting, but the main parts of their gardens were so arranged that each specialized in growing a few things. In this way, in spite of very limited space, we kept the rows long enough to be useful for the table. One year, Johnny Cake raised the String Beans, the Carrots and the Lettuce; Chuck-a-buddy, the Peas, the Beets and the Tomatoes; and little Peter Pan, the Nasturtiums that made a gay border. Nasturtiums, by-the-way, are delightful for the littlest ones. The seeds are large and easy to handle, they are soon up and in bloom, and the more the many bright flowers are picked, the better. Ornamental Gourds, though not so easily grown, are especially pleasing to children, because of their varied and fantastic fruits. Our baby's favorite rattle is a bright green and yellow striped spoon gourd. The garden grows with the children, not necessarily in size, but in ideas. No two years are alike.

Where there are children there are going to be animals—that is, if they are properly brought up children. There must be a place in the garden for the pets. Not in the playground—that's too noisy—but in some sheltered, quiet corner, with thick bushes for protection, and tall, bright Hollyhocks for looks. In this quiet corner, one may have comfortable homes for the "bunny-rabbits," guinea pigs, turtles, or whatever little guests the children may have. Let us make sure that the homes really are comfortable. Don't have little "wild" pets for the children, unless there is someone with an understanding heart to care for them. Let the children attend to them, but let them do it under proper supervision. They are sure to forget sometimes, and caged animals mustn't be forgotten, ever. Also, one must know their natural habits of living, in order to give them suitable lodging and food. I fail to see anything "cute" in a child playing with a rabbit as though it were a doll. It does not teach a child to be kind to animals to give him a kitten to play with before he is old enough to understand how a kitten should be treated. Kittens are fascinating little creatures, and make delightful pets for children of the right age; but kittens soon grow to be cats, and cats are the birds' worst enemy. If one must have a cat (somehow we always do seem to have one), don't forget the cat guard on the trees, and be sure to put it up high enough so that it will not be a danger to the children. As for the puppy, digging up the garden with such tireless energy, there's really nothing to be done, except to laugh at him and to forgive him. The damage is usually simple to repair.

Springtime in the vegetable patch, the planting of which is under the direction of the children



AN INGENIOUS SOLUTION OF THE EVER-PRESENT PROBLEM

In this carefully planned layout the children's playground, gardens, and playhouses are successfully included without in any way interfering with the beauty of the immediate surroundings of the house

Of course, wire may be used as a protection in special cases, but the less there is of it in the garden, the better. After all, even a very bad little puppy, if there is such a thing, more than pays for the trouble he makes, and as time goes on, he will be less of a bother and more of a joy, for puppies soon grow to be dogs.

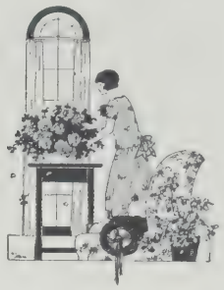
In order to get as large a sweep of lawn as possible, we placed our house well over on the north side of our lot. Our "tapis vert" is very attractive, and it makes a splendid running place, planted as it is with tough, resistant grass. The shrubs and a shade tree or two, are planted on the outer edges, and in every safe corner are flowers. One by one, these flower corners have been claimed by the children, who strive to make them as beautiful as possible.

Best of all in our garden is a wonderful old Apple tree. If you can't have an old Apple tree, by all means set out a young one—it will grow. There is nothing that makes a garden so really, truly "country" as an Apple tree. It is beautiful always, and friendly. The children love it and so do the birds. In the springtime there are blossoms, and a singing bird in a blossoming Apple tree is a whole garden in itself. By-and-by comes harvest time and then there are apples! Apples to look at, gleaming in the sunshine, apples to munch on whenever you wish, apples to listen to falling in the night time. Apples in the garden and children in the garden—a garden worth having indeed!

ROSES ABOUT THE GOLDEN GATE

ALLISON M. WOODMAN

Landscape Designer



THE queen of flowers is indeed an exacting mistress. Gracious in her moods when properly approached; but demanding a different service in different courts. In other words, the gardener who will have good Roses must learn to give them the treatment that they require in the particular location where he is. Local variations are often decided and positive. Mr. Woodman in this article explains instructively what may be done to who smiles from her majesty over a large section of the Pacific coast.

SINCE its first introduction (during pioneer days), the Rose in California has had a history of romance. Many farmsteads still retain a few old-fashioned Roses, clambering over fence, trellis, or some dilapidated roof. Frequently, the Rose was the one thing which added an element of color and beauty to the rather drab existence of the early pioneers. In lieu of cultivated varieties, the California Wild Rose, frequenting shady woods or bordering streams, would fringe the borders of a farm. Two great festivals in honor of the Rose are held every year in California, one at Santa Rosa, and one at Pasadena, the latter known as the Mid-winter Rose Tournament. In the Great Interior Valley stretching from the Sacramento Valley to the San Joaquin Valley, usually experiencing extremes of temperatures, the Rose is at its best during early spring and fall. The glory of the spring season in some interior town lies in the sudden almost miraculous bursting into bloom of the Roses. The Rose in the interior of the state, and for that matter in the foothill regions, usually has clean lustrous foliage, being singularly free from insect or fungous pests, except the easily controlled aphis.

About the San Francisco Bay Region and along portions of the coastal regions the Rose may keep on blooming throughout most of the year, but it is also then more or less subject to mildew, as well as to aphis. In the Los Angeles region the Eastern tourist may come from a region of raging blizzards to witness a Rose garden profuse with bloom at Christmas.

Much of California is semi-arid in character, and there irrigation must be resorted to throughout the summer, although it is well to give a partial rest by withholding water somewhat during either July or August. Saturate the soil thoroughly at each watering; after several days cultivate the soil at the top. It is essential that the soil be well-drained.

Most varieties are partial to a rather compact, medium heavy soil containing an admixture of clay and loam. The Teas prefer a somewhat lighter medium and will thrive in sandy loam. Formerly it was the practice of growers to grow budded stock almost exclusively, but there is some tendency to deviate a little from the usual practice and to grow both budded and own-root stock, and indeed a few growers send out nothing but own-root stock. My own observation is that, although budded stock will apparently make a stronger growth at the start, own-root stock of some varieties will out-live the former. Some of the finest, most prolific Roses I have ever seen were grown from ordinary cuttings.

To do their best, Roses require fertilizers, both animal and commercial.

The health of the Rose in California depends in a large degree upon proper methods of pruning. In one sense a Rose bush is pruned in part every time a bloom is picked. If a stub is left, however short, die-back is very apt to set in, in many cases eventually causing the death of the bush. Long stems should be cut, using sharp shears, cutting to a vigorous bud. As in the East, Hybrid Perpetuals will stand more vigorous pruning than the Tea Roses.

No time can be named categorically for pruning the Rose. The best time for a general pruning is when bushes are dormant (at the time of writing in January the bushes are still in leaf), which *usually* occurs in late fall, the period of dormancy lasting until early spring. Then remove all bushy top-growth as being a useless impediment. Frequently warm weather during late winter, will cause the bud to swell and even to develop into shoots before the normal time which will be cut back by hard frost. When this does happen, cut back into old wood to produce new healthy shoots. It may even be necessary to prune some of the more vigorous varieties and to remove twiggy growth again in summer.

Beauty of Glazenwood Rose, climbing forty feet into the branches of a Pine tree, in the famous old estate of General John Bidwell, one of the early pioneers of Chico, California. This Rose is also known by various other names, as Gold of Ophir, Fortune's Yellow, San Rafael Rose.

The Rose does not thrive in drafts, or in windy, exposed places; it likes a location where some windbreak in the form of a hedge, fence, lattice, or clump of shrubs will break the force of the wind. Though Roses require warmth for the best results; yet in very warm regions it is preferable that they have partial shade during the heat of the day.

Fortunately, Roses in California are not attacked by many pests, but they should be continually safeguarded against the few that do attack them. Aphis (plant lice) are easily controlled by nicotine in the form of tobacco dust. For mildew, dust the canes with sulpher or spray with copper sulphate or bordeaux. Canes attacked by rose scale should be cut down to the ground. Shoots attacked by the rose borer should be removed, or the borers taken out of the old canes. The rose snout beetle and the insect called diabrotica, resembling a green ladybird, the latter sometimes doing considerable damage to the buds, should be shaken off early in the morning into a pan of oil. Die-back which is difficult to control, is frequently due to improper soil conditions or to improper pruning methods.

In discussing varieties of Roses a word may be said for old-time favorites, now largely supplanted yet furnishing the foundation for some of our most picturesque and characteristic rose gardens. So prodigious is the growth of some of these that the bushes with their thick stems and wide-spreading branches resemble small forest trees. A specimen of La Marque growing at Santa Clara is claimed to have a stem, really a trunk, over forty inches in diameter just above the ground. Another fine old Rose of unknown origin at Ventura has a stem almost as large, with enormous branches spreading out over an area covering several thousand square feet.

One of our finest climbers is the Beauty of Glazenwood (Fortune's Yellow), also known as the San Rafael Rose and by several other names. I have seen it clambering up the sides of a high pump-house, or climbing sixty feet into the topmost branches of a tree—literally forming a shower of gold. This rose does well in Southern California.

One of the most interesting Rose gardens in the state is found on the old Bidwell Ranch at Chico, now converted into a city park. Here the fine old Roses cover the arbors and seats, some reaching into the tops of the trees, filling the air with a most exquisite fragrance. On a moonlight night the garden is converted into a veritable fairyland.

Many of the older gardens still contain thriving specimens of the Cabbage, Velvet, Damask, Moss, Red Burgundy, Madame Plantier, Black Prince, and the once very popular La France Roses.

Rose gardens at Brown Gables, the home of Mr. and Mrs. Wallace Alexander, in Piedmont, near Oakland, California, overlooking the Golden Gate. The beds are laid out somewhat irregularly, but with the trees for a background and a rock garden for the foreground, they are provided with a picturesque and attractive setting

THE WAY FOR REALLY SWEET CORN

ARCHER P. WHALLON

SWEET Corn is a vegetable that should be found in every home garden. Not only is it a crop of the easiest cultivation, but if you would have it at its best, it must be fresh from the stalk as the ears lose their flavor rapidly after picking. The sugar turns to starch, the approximate loss of "sweetness" being fifty per cent in twenty-four hours.

Sweet Corn is a relatively easy crop to grow. It does well in any good, rich garden soil. A clover sod makes a good basis, and where sufficient stable manure is not available a good commercial fertilizer should be used. A mixture of 200 lbs. acid phosphate, 80 lbs. nitrate of soda, and 25 lbs. nitrate of potash will suffice to broadcast over an area 100 ft. square; or to figure by the row, 5 lbs. to a hundred feet spaced two feet apart, or 7½ lbs. spaced three feet apart. That is an approximation of what the Ohio experiment station found to be the most profitable fertilizer for Sweet Corn. Of course, the fertilizer is thoroughly mixed with the soil and does not come into direct contact with the seed or young plants.

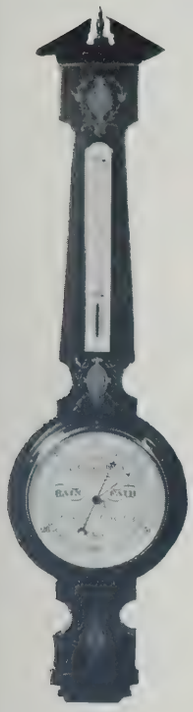
A really good crop of Corn cannot be grown without frequent cultivation, not only to keep down weed growth, but to retain soil moisture through the formation of a dust mulch. Rows running north and south will receive a maximum of sunshine. The rows may be spaced from two feet to three and a half feet apart, according to variety, the small early varieties naturally admitting of the closer planting.

Sweet Corn germinates but poorly in a cold wet soil, and too big a hurry to make an early planting is useless. The crop may be started indoors, but as Corn transplants but poorly, it is desirable to start in paper pots or dirt bands. The glass and fabric plant protectors are also of practical value in getting a safe early start.

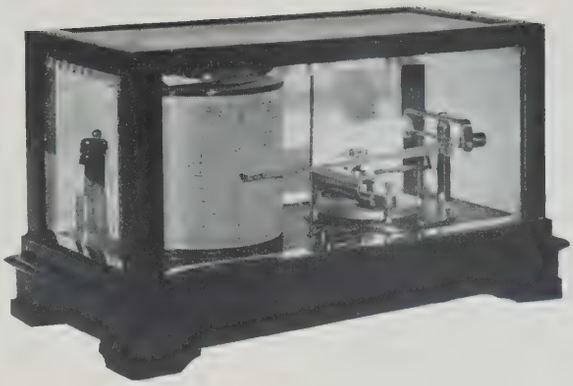
Planting in hills, leaving three or four stalks to the hill is the usual practice, but seeding in continuous rows with single stalks from fifteen to eighteen inches apart has some advantages. The single stalks in the row have ample room for development, barren stalks are largely eliminated, the ears are the more easily dusted with insect powder and are convenient for harvesting.

The menace of the cut worm can be greatly reduced by early plowing or digging and cultivation of the land; also by a poisoned bait made by mixing 1 lb. paris green in 20 lbs. of bran and moistening the mixture with 2qts. cheap syrup and 3½ gal. water. Distribute the bait in small piles (about a small handful each) three or four feet apart a few days before planting.

The European corn borer is not so very likely to attack the Sweet Corn plantation of the home garden isolated from extensive corn fields—but if it does, about all you can do, is to destroy your Corn crop—and the quicker the better! The corn ear worm is a very difficult pest to combat. The remedy is to dust the green corn silk with an arsenate dust mixture. Some growers recommend seven parts arsenate of lead to three parts sulphur; others, equal parts of each. The application may be made with any powder duster or sifter, a large baking powder or coffee can with the top perforated with nail holes works very well. The poison dust must be kept on the silk during the whole time that it is green and succulent, from the time it first appears. This usually means three applications about a week apart. About two pounds of the dust mixture will suffice for each application for a half acre. Early Corn is less liable to attack by the ear worm than the late.



A lover of the graceful, simple lines of the Colonial will appreciate the pendant barometer, fashioned as Sheraton fashioned his exquisite old Banjo clocks. Made of the finest of inlaid solid mahogany, they are perfect companion wall-pieces for the rare and valued clocks of years ago. The dial, engraved with old English numerals and an accurate thermometer, is set into the slender stem

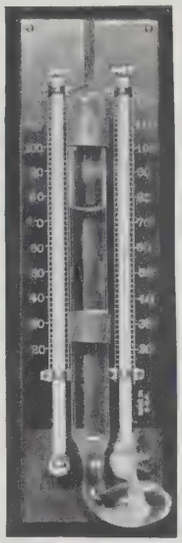


A simplified automatic weather forecaster is the Cyclo-Stormograph, which writes on a chart a continuous record of changes in the weight of the air both as to day and time. A glance shows the condition of the air as regards its weight, and whether any change taking place is rapid or slow

This Registering Maximum and Minimum Thermometer has a heavy plate glass indestructible scale, and can be set at any angle so as to be easily read when outside a window. Following the thermometer means comfort and tells one how to dress for a murky or a cold crisp outdoors

Temperature *Telling* and *Forecasting* Weather

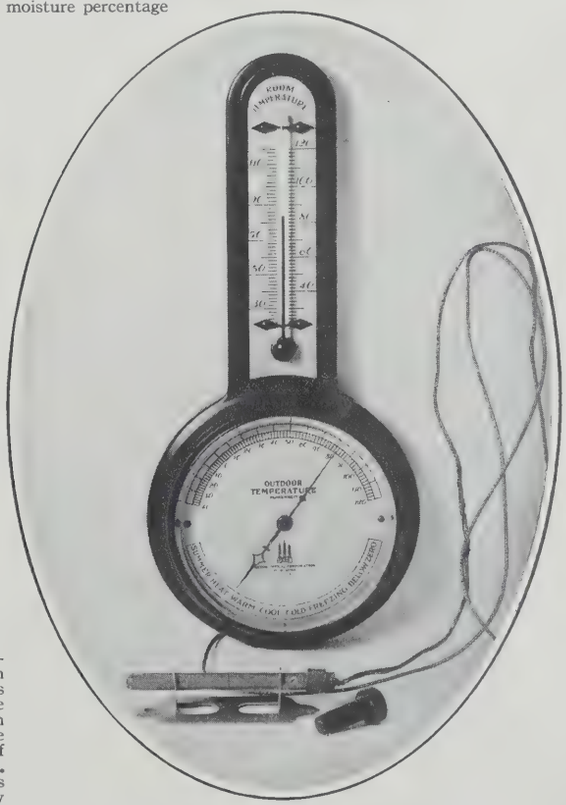
Photographs by courtesy of E. B. Meyrowitz



The simple Wet and Dry Bulb Thermometer is the elemental form of the hygrometer. You have to do your own calculating to get the moisture percentage

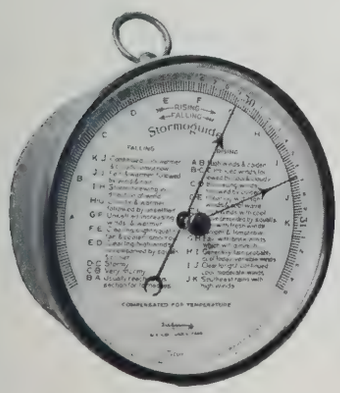
It is not always wise to trust to impressions or feelings, for temperature must be read in relation to the atmospheric moisture if you are to get its real meaning. A moist air *feels* as warm as a dry one perhaps ten degrees warmer, and a certain humidity is essential for plants to live (to say nothing of us humans). House plants die in a normally steam heated room because the air is dry and takes moisture from the plants. A wet and dry bulb hydrometer will tell the condition; instruments recording variations of temperature and humidity will often foretell the advent of storms, etc. No gardener can work intelligently without reference to the "weather glass"

The Hygrometer is devised to determine the percentage of moisture in the air. The one pictured above is a precise and accurate instrument that requires no calculation to show the relative moisture. It is mounted in a brass case, has a 4-inch dial and has a Fahrenheit thermometer on bottom of dial



Gives both indoor and outdoor temperature readings at the same time, of constant value to mothers who must know the difference between indoor warmth and outdoor cold when dressing Buster for his daily outing. It is hung on the wall of the room and the attached capillary tubing is then passed through the window and fastened

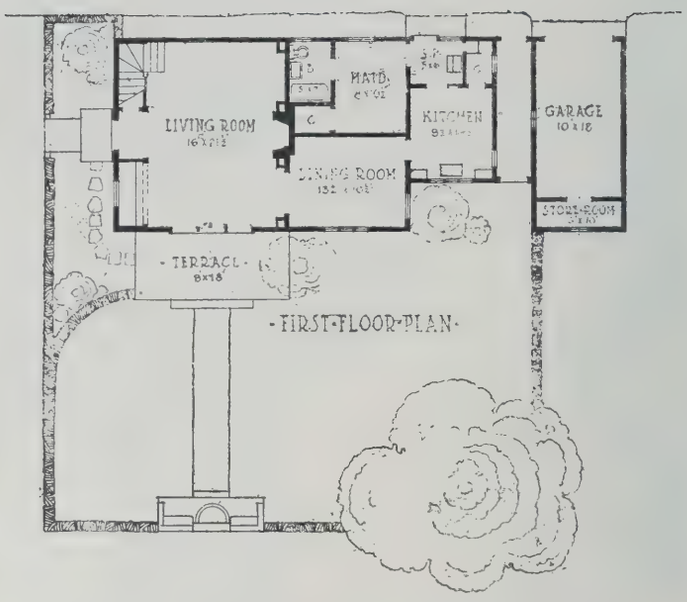
Here is a convenient Traveler's Registering Thermometer with a porcelain scale 5 inches long, mounted in neat leather gold tooled case which also has a pocket to hold the magnet for resetting the pointers



Even a "landlubber" can understand this Stormoguide which tells in plain language the mysteries of the barometer. On its face is printed clearly what every fall and rise of the needle means. Compensated for temperature and adjustable for any altitude

Barometer in polished brass 5-inch dial mounted on back of Flemish Oak with brass beaded octagonal border

A LITTLE HOUSE



The simpler architecture of Spain, of which the Spanish padres fashioned the enduring missions along the Pacific has been drawn upon in the design of this stucco home on the West Coast. The broad simple plaster surfaces, the brilliant tile of the roof, the balcony and the window grilles are all in the vernacular

Full advantage has been taken of the small plot by building close to one street line and screening the living quarters on the garden side

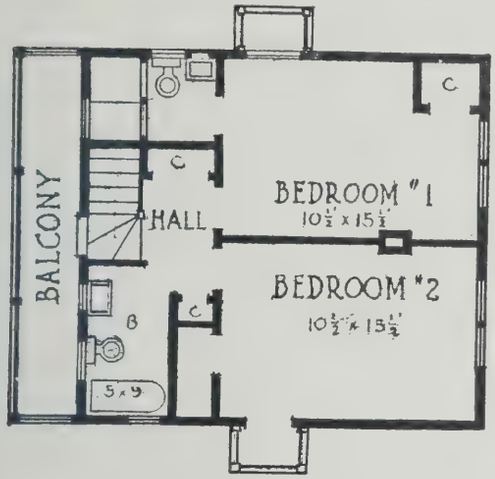
N CALIFORNIA

Home of Dr. Marian Williams

Santa Barbara, California

Soule, Murphy & Hastings, Architects

Photographs by J. Walter Collinge



The second story extends over only a part of the first and is entirely for the master's use; the maid's room and bath being located next to the kitchen

The principal street front, along which the young hedge under California sun will soon complete a dense screen to afford the desired privacy in the garden at right

LILLIPUT GARDENS INDOORS

ELIZABETH URQUHART

Little Landscapes for Living Room and Sunporch that Reproduce in Miniature Nature's Scenic Moods—Materials, Technique and Meaning as Taught by Their Oriental Originators

THE happy man who takes stone and soil and sets agrowing therein trees and shrubs and flowers is a creator and feels within him the divine impulse to make a new avenue for life and beauty; and just as life and beauty may abide in all things great or small they are not to be measured by the length and breadth of the garden.

A Japanese miniature garden, for instance, modelled on some particular spot of beauty, with its little stones and low-growing shrubs standing for mountain boulders and gorges and great twisted pines, seems to be the landscape itself seen through the small end of a telescope. Just as gardens belong to a branch of Japanese art, so the making of miniature landscapes and gardens has become a fine art, subject to as many rules and restrictions as govern the making of larger domains.

Happily, from time to time an artist along these lines drifts to our shores, and if one can only discover him and then half-way understand him, something of the art may be learned. At first it seems like play—the modelling, the tinting of the rocks, and all the small accessories that make up the finished product; but as the pupil goes on from lesson to lesson, gradually discovering a well-thought out plan, finding that the modest teacher has spent two years acquiring the technique, he begins to realize there is more to be learned than appears at first sight.

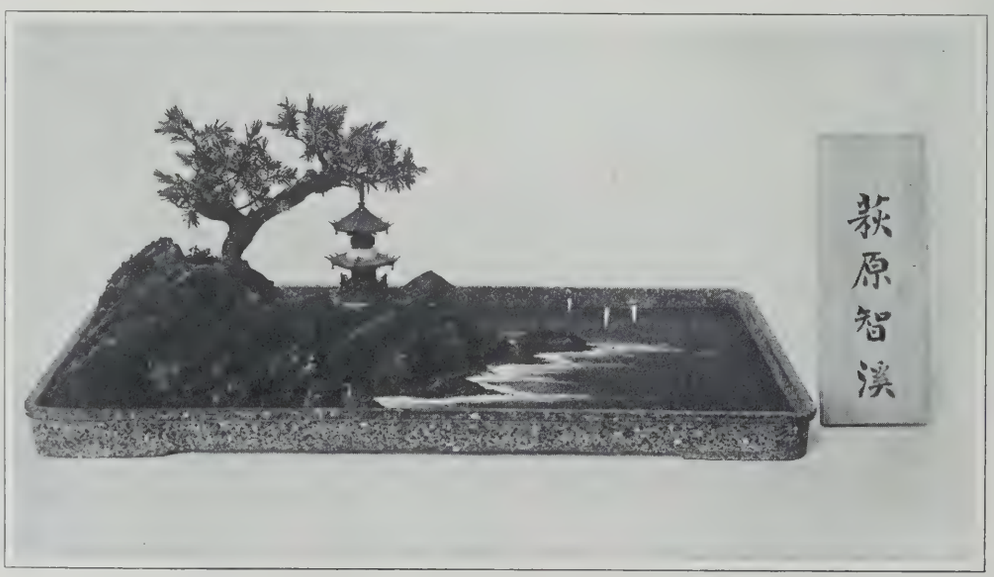
THIS miniature creative work consists of three branches: Bon-kei or Dish Landscapes; Bon-sei, or Dish Pictures; and Hakoniwa or Box Gardens. The Bon-kei, or Dish Landscapes are really the foundation of all three. If one learns to make the little landscapes the others are easily made. The subjects are generally mountains with deep gorges and ravines from which flows a stream or water-fall, or else a beetling cliff overhanging the water or rising up from the sea which washes under it forming little coves and indentations. Sometimes a headland will jut out into the sea, and on the water will be sail boats, either scudding along or drawn up on the beach where the waves break in long ripples crested with white foam.

For the landscape work, it is necessary to have a shallow porcelain dish with straight sides such as are found in Oriental shops, either oblong or oval, although a white enamel tray or even a deep platter may be substituted for practice work. The ingredients of a landscape, as in nature, are mud, sand, pebbles and moss with perhaps a few branches of small shrubs or low grasses which are inserted into the damp mud and stand for trees. The tiny implements are beautifully made—veritable little works of art—from the long-handled trowel to the set of brass wire-sifters for the sand, and the tiny brass syringe for watering the moss. There is a scoop for the sand, a fairy-like brush, and a pair of brass forceps for handling the moss and inserting objects too tiny for the fingers.

As to the construction of the garden itself, if a bit of rocky headland is to be done, the artist takes several lumps of damp mud or clay and with deft hands roughly molds them into the desired shape, building up one side, and sloping down another with the trowel. Then he carves depressions and channels here and there with sharp rocky edges and deep crevices, all curving away from the sea, but with rocky promontories projecting out into the water. Coloring or tinting liquids are needed for the rocks and mountains. These may be made from the bottled water colors in green, dark red, and blue artists. Pink may be made by mixing white tooth powder or whiting with the red as it comes. Next he applies the liquid pink paste, put on irregularly but smoothed with the little trowel; this mingles with the black damp clay and produces shading. Then he fairly slops on, with a brush, the dark red liquid which runs down the sides, coloring the clay and blending with it. The headland now begins to look like real rock, and when the green liquid is put on the mingling of the two makes a natural hillside wonderful to see. Bits of moss are next taken up with the forceps and fixed firmly in the ledges and in crevices and shady hollows where it would be likely to grow. This last touch seems to breathe life into the inanimate clay, and when a few low-growing shrubs are inserted here and there and a twisted Pine tipped at just the right wind-beaten angle, a bit of nature is created.

The sand is then sifted, poured in from the scoop, brushed evenly with a dry brush and then wet with the spray, letting the water seep into the sand from the edges. All surplus water is removed with the little bulb and the dish is gently shaken to get the sand even and level. If a boat were planned to ride the waves, a bit of candle grease is dropped on the dish before the sand is poured in, so that the boat may be firmly anchored in position. Lastly the maker of all this, takes the fine white marble dust and sifts it on the wet sand in curving ripples, always in groups of three or five, and when he has dropped a little gravel along the edges of the shore, the picture is finished.

These Dish Landscapes are highly prized in Japan and competitive exhibi-



A TYPICAL EXAMPLE OF THE BON-KEI OR DISH LANDSCAPE

Here, as in all Japanese art, it is composition rather than color, restraint rather than elaboration by which beauty finds expression

tions are often held where the little works of art are submitted and where an admiring public comes to see them. Indeed the great Hiroshige designed a series of pictures from his "Tokaido" prints to be reproduced as Bon-kei, and rare copies of it are still to be seen in Japan. The Bon-kei may be kept fresh for a month or two if the moss is carefully sprinkled, but of course the clay finally dries and cracks, and plants cannot grow as in more favorable soil.

THE Bon-sei or Dish Pictures are really sections of a garden or a landscape. There is generally one carefully chosen rock, in whose crevices are planted small trees and mosses that are really growing; the rock, usually of volcanic material, stands in shallow water, wet sand or gravel, and absorbs the water. Sometimes however a particularly artistic rock is placed in a shallow dish with a draining hole, and a little tree is cleverly arranged to grow out of it or close beside it. Moss and tiny shrubs are planted in the shallow soil and we have a veritable picture.

The trees in these dishes and in the gardens are kept small by cramping the roots in shallow soil, and by carefully cutting out the terminal buds of the little branches, thus throwing all the growth into the trunk and branches, and producing a tree only a few inches high, but more than as many years old.

THE Hako-niwa is perhaps more satisfactory than either of the other two miniature landscapes, for it is at once a picture, a landscape and a living growing garden which becomes more beautiful as time goes on. The boxes for these gardens should measure about two feet by eighteen inches (though they may be larger), and must be three inches deep, made of wood with holes bored for drainage and with cleats or feet on the bottom. The rocks are first put in place, as they are considered of the greatest importance, the very foundation of the garden itself. A Japanese garden must have at least five stones, though there may be over a hundred; but a garden without stones is an unthinkable thing. There will be a Stone of Contemplation, commanding the best view of the garden; a Sentinel Stone; a Stone of Easy Rest; and just at the edge of the little lake, the Wave-Receiving Stone. Stepping-stones will of course replace the gravelled walks of the West, and they will be named Flying Stones or Scattered Islands.

When the stone question is settled, more soil is added and the ground in built up, slightly higher at the back forming an uneven mound on one side, while the other slopes to a lower level. The rocks are then carefully removed and re-set in cement in the same positions. The bed of the lake or stream is filled in with a roughly finished layer of cement. While soft, pebbles and small stones are embedded in it, like a real river bottom.

After three days when the cement is set, the planting of the garden begins. First the principal tree—Pine, Cedar, or Maple—will be selected. It is planted and, on a lower slope, a group of smaller trees to bear it company. Beside some chosen rock a Juniper prostrata will be planted and will reach out over the water; next a clump of very low-growing dwarf Bamboo and here and there a tuft of water grass which never grows up and always stays in scale. The trees and shrubs must be watched and all aspirations in the way of growth literally nipped in the bud.

Last of all, patches of fine moss are laid down as turf and tiny stepping-stones make a path from the riverside to the little hill. A Japanese would naturally add a tea-house, a pagoda with a bridge spanning the stream on which would float a tiny boat or raft, a small personage and a crane or two. If it were a temple garden, there would be stone lanterns and sacred deer.

It is but a step to transpose such a garden into another key, and by eliminating the Oriental accessories produce a type belonging to the west. It may be planned along natural or formal lines, but it can have real trees and plants and little bird baths, stone seats and pergolas. It may even have pools and lakes inherited by tiny fishes.

Though these little landscapes may lack the permanence of a garden, they will be found a wonderful education in art and observation. The study of nature which the modelling involves, will develop a quickened vision of the beauty of outline, and will discover stories in stones, and pictures in every curving line of mountain and shore.

TWO TYPES OF INDOOR GARDEN

The Hako-niwa (upper picture) of which the distinctive feature is the prominence of the five rocks, and (below) two examples of Bon-sei, or Dish pictures. Detailed description in accompanying text

Garden & Home Builder's

PRIZE OFFER HOUSE

with
Garden Plans
and
Furnishings

In the COLONIAL STYLE

The one set of floor arrangements is fitted to two different exteriors

In the ENGLISH COTTAGE MANNER

THE story of our very successful GARDEN & HOME BUILDER Prize Offer House has been told piecemeal in earlier issues.

The house plans were originally offered in the GARDEN & HOME BUILDER, October, 1925, having been specially prepared for this magazine by R. C. Hunter & Bro. Full set of blue prints and specifications for either style (that is, Colonial or English) are available for $25. Especially designed garden plans are fitted to each style of house. For the Colonial there are "old-fashioned flower" beds aplenty; for the English a more classic treatment of flagged court and water pool with a garden house. These plans are by Prof. Loutrel W. Briggs. They were presented in large scale in January. In order to keep the house in proper harmony in its interior detail, Mrs. Ruth Robinson Tregenza, Department of Home Decoration, Teachers College, New York City, discussed interior decorations and furnishings for book types, in the January issue.

A prize of $500 is offered for the first good account (with adequate photographs of both exterior and interior) of the building and equipment of either model of this house. There is no date limit to this contest. The prize will be awarded to the first acceptable account.

Prize Announcements

A $100 Dividend in Contentment

FROM time to time during recent months we have been publishing, under the general title of "Dividends in Contentment," little stories of people who have gone back to the land, people who have re-discovered "earth's undersong of comfort." It is a theme very near to many hearts to-day—this second coming of the land into her own, her reassertion of the vital part she plays in human lives and destiny. Through the whirring of much machinery we begin again to hear the still small voice.

For the sake of readers similarly seeking inspiration and direction and because we believe that "the swifter the pace, the sharper the tension of modern life, the more surely will the country—with all it has to give—come again into its own," we want to hear further from folk who have dared, and breasted, and bested the great adventure of living on the land.

For the most stimulating, authentic story of this kind which reaches us by August 1, 1926, a "dividend" of One Hundred Dollars ($100) will be awarded. Manuscripts, other than the prize-winning one, deemed suitable for publication may be purchased at regular rates. Articles not to exceed 3,000 words nor be less than 1,200 and to be accompanied by pictures of the homestead or farm, its garden, orchard, cattle, chickens, or whatever the special feature which affords success. Address: Dividends in Contentment Competition, % The Editors, GARDEN & HOME BUILDER, Doubleday, Page & Co., Garden City, N. Y. (Authors desiring manuscripts returned must so request and enclose postage for that purpose.)

For Garden Photographs $50

TWO prizes of $50 each are offered to Garden Clubs for the most attractive and interesting photograph (or photographs) of a garden made this year. Contest closes October 1st, 1926, by which date all photographs with explanatory details showing how the garden was made must reach The Editors. A club may submit one or more photographs of any garden in its district. The photographs must be suitable for reproduction and should have about a thousand words of explanation as to how the garden was worked, what it accomplished, and some account of the most interesting features. We reserve the privilege of purchasing at regular rates any material submitted. Unsuccessful entries will be returned only when requested and stamps are enclosed for postage. Address: Photo Contest, % The Editors, GARDEN & HOME BUILDER, Garden City, N. Y.

A Practical Improvement—$25

WHAT is your practical suggestion for bettering any plan of either house or garden, or both appearing in this issue? Each month GARDEN & HOME BUILDER offers $25.00 for the most striking, practical suggestion for the improvement of any of the plans in the current issue. This applies to any plan printed in this month's number and replies must reach us by April 1st. It is not necessary for you to make a carefully finished drawing, just so long as the meaning is clear enough for our draftsman to render it properly.

It may be that you can see an improvement by stealing space for a closet, or adding an extra bathroom; the approach to the garden can very often be made more practical, more fitting; or, perhaps, it is the garden itself that can be bettered. These are but suggestions by way of example. Address entries to: Monthly Improvement Contest, % The Editors, GARDEN & HOME BUILDER, Garden City, N. Y.

PEONIES

grown successfully in the

SOUTH

Refuting the Popular Idea That These Gorgeous Flowers are Only for Cold Regions

CYRUS N. RAY

Madame Calot plant (with Archie Brand in foreground) set out two years and carrying five large blooms

THE very general absence of Peonies from the gardens of Texas, had set me wondering if there were any good reasons why so beautiful a flower could not be grown in the South, so the attempt was begun in the spring of 1918 with one very small division of Madame Calot.

The success attained with this one plant was so complete that a number of other named varieties were planted, and an entire bed was given over to Peony seeds.

The soil of the bed was black and sticky, and to render it light and friable it was dug more than a foot deep and enough sand and loose sandy loam thoroughly mixed and incorporated into the soil to make the bed into a medium sandy loam resembling rich wood's earth in texture—a soil on which water fails to stand, but which at the same time is much more retentive of a proper degree of moisture than the original clayey soil. The addition of sand and loam raised the surface of the bed ten inches above the yard level. The edge was set with large rough field stones to hold it to that level.

The two large blooms in the foreground are Mons. Jules Elie, one measuring seven inches across. In the background is the large plant of Madame Calot

The Peonies were set so that the dormant buds were covered with earth to a depth of from one-half to one inch. As the ground here rarely freezes more than a few inches deep, this insures freezing of the roots.

It is my opinion that if planted deeper, the roots being denied a proper winter rest would fail to bloom.

The beds are watered heavily with the hose every three weeks during the dry winter months and about once a week during summer if the weather remains dry. Once in the fall, and once in early spring a pint of bone meal fertilizer is worked into the top soil in a circle of three feet around each plant. At least twice a year air-slacked or powdered lime is sprinkled on the surface, enough to whiten the ground, and watered in.

Once a year some wood ashes or potash fertilizer is lightly sprinkled between the rows and watered in. The bed is situated north of a low picket fence which is vine covered. This shades the roots during the middle of the day but allows the full sunlight to strike the foliage. Some tall shrubs obstruct the rays of the hot afternoon sun.

The first very small division planted in the spring of 1918 failed to bloom until 1920, when it had two large blooms. In 1921 it had seven; in 1922 ten; in 1923 fifteen; in 1924 thirty; and in 1925 thirty-three full-size blooms, six inches in diameter, and four inches in thickness. Besides the full size terminal blooms enumerated above, there were each year about a third more of the secondary size which were about four inches in diameter. Counting both terminal and secondary blooms Madame Calot had forty-eight in 1925.

In the fall of 1922, a small root of Paeonia officinalis was set out. In 1924 it had two blooms.

In the fall of 1923 Archie Brand, Mary Brand, Mons. Jules Elie, Felix Crousse, and H. F. Reddick were set out. These were from northern growers who sent strong roots. Excepting Mons. Jules Elie all gave from two to three large blooms each the following (1924) spring.

In 1925 Mons. Jules Elie had three large blooms, one seven inches in diameter, and four inches thick. Archie Brand had five, the largest six and a half inches across.

Because of a too shaded position and insufficient winter irrigation the three red ones named above failed to bloom but have made good growth last year (1925).

In the fall of 1924 Petite Renee, Festiva Maxima, and Mikado were planted. All made good growth, and Petite Renee produced two large blooms in the spring of 1925.

Two Tree Peonies were planted three years ago, but have failed to bloom. In the fall of 1923 about two hundred Peony seeds were planted under a lath arbor. Eighty of these came up early in the spring of 1925. Most of these survived the summer, and in September, 1925, seemed to have good dormant buds and roots.

AMONG OUR GARDEN NEIGHBORS

Readers' Open Column for Exchange of Comment and Experience

"Fiat justitia, ruat coelum"

Potash Feeding Cures Rose Mildew

TO THE EDITORS:

In my report on the six new Roses (page 45) casual reference was made to a susceptibility to mildew in Una Wallace and Mrs. Henry Morse—at least that is what has been said of them. Now in that connection here is something that may be (or may not be) of value to the rose world.

Some years ago a local rosarian told me he believed he prevented mildew on his Roses by the free use of hardwood ashes scattered over the surface of the bed. I did not give it much credence, for I used hardwood ashes on my rose beds and yet I had mildew on some varieties. But I did not investigate as to the amount of ashes used by this local rosarian, and I did not then use as much ashes on my rose beds as I have lately. Two years ago I heard of an amateur in western Washington who neither sprayed his Roses as a preventive of mildew nor had need to spray or otherwise treat them as a cure for mildew. But I found he cultivated and fed his Roses freely, and used wood ashes and potash in extra amounts. It dawned upon me that the extra feeding of the Roses with potash might be the secret of the prevention of mildew. So in 1924 I fed my Roses, especially Una Wallace and Mrs. Henry Morse, with an extra amount of both nitrate and muriate of potash, with the usual "feed" of hardwood ashes, as described in my article, "How I Feed My Roses," in the March, 1925, number of GARDEN & HOME BUILDER. True, I did some spraying with bicarbonate of soda solution too. The result was that *I had no mildew on either Rose mentioned*, but did on some of the others.

I am strongly inclined to believe that *extra feeding of the Rose with potash will limit, if not prevent, mildew.* Confirming this, on November 4, 1924, I received a very illuminating letter from Mr. H. H. Hazlewood, Epping, New South Wales, Australia, in which the following choice bit of information was given:

"The soda cure for mildew is an old idea, but never seems to have been taken up seriously until you gave it such prominence some couple years ago. [The credit for the prominence of the soda treatment belongs to Mr. Jesse A. Currey.] A different method, which we have tested out with splendid results, is much more simple, and we are sending a full account to Dr. J. Horace McFarland for publication in the *American Rose Annual*. It is simply this: That given a sufficiency of potash in the soil the plant will keep itself free from mildew, as potash plays a most important part in the elaboration of starches and sugars, which are so necessary to the nourishment of the plant. We should very much like you to try it, preferably in the form of sulphate of potash, or if wood ashes are available, as carbonate of potash." [See *American Rose Annual*, 1925, p. 81, "The Conquest of Mildew," and the article that follows on p. 86.]

The clear presentation of the matter in this letter, together with the other information I had, and the trial I had given potash in 1924, led me to believe there is a valuable truth here that is worth a most exhaustive trial. It was in my mind to test the value of the preventive by the use of sulphate of potash in 1925. But two very important business engagements took me from home during the greater part of May, June, and July of that year and the trial was not made. But I will try out the sulphate of potash during the season of 1926, etc. I will be pleased to receive information from any who may join in this trial and will gladly give any information desired. I will use one-half, one, and up to two ounces of the potash for each of the different Rose bushes, applying three times during the growing season by scattering on the surface of the soil and raking it in, doing this just before a rain or follow the application each time by the use of the sprinkler.—S. S. SULLIGER, *1510 North 9th Street, Tacoma, Washington.*

Climbing Roses That Bloom Recurrently

TO THE EDITORS:

Probably all Rose lovers are interested to observe when any of their plants show a tendency to reward them with a second season of bloom. Mary Lovett has often been commended for producing fall blossoms. My own plant of this variety has only once been thus generous to me, but her sister, the beautiful Bess Lovett, which is the best red Climber I have yet acquired, has been more liberal. For three years or more Bess has showered scattering blooms in mid-summer and fall; never more than a few at a time, but perfect and brilliant among the fine foliage.

For two seasons Tausendschon has similarly given stray flowers out of season. One shone out, daintily and delightfully pink and lone, on October 23, 1925, after the freeze that destroyed all the garden Dahlias and Cosmos. And on October 27 Climbing Orleans had still three good clusters of its small but vivid flowers. This climber furnishes me more out-of-season bloom than any other climbing Rose.

Vondel has three well-marked periods of bloom but the individual flower is small and lacks distinction in both form and color. I do not care for it personally though it is a dependable Rose. I believe Climbing Cecile Brunner and Climbing Clothilde Soupert would be nearly ever-blooming, but I have not tried them. It seems that any climbing form of a polyantha might bloom intermittently through the year, and possibly from this class we may get our true ever-blooming Climbing Rose.—MISS A. H. BOTSFORD, *Edgemoor, Del.*

Roses in the Northwest

TO THE EDITORS:

Many people in Spokane have remarked "You can't grow Roses in Spokane, at least not as well as on the Coast, so I am just going to grow something else that is hardy and not so much trouble." It is certain that these people have not seen the Rose garden of Mrs. Rieghner on North E Street, which demonstrates that good Roses, the very best, do grow in this latitude and altitude.

The sudden two-weeks cold snap just before Christmas last year caught quite a number of the Washington flower growers unprepared as to winter protection of their perennials and many feared that their Roses were done for. In early spring they reiterated this opinion, yet by mid-summer hundreds were pleasantly surprised—for the Roses had survived, produced blooms surpassing anything that they had ever done before both in size and number. And the secret of it was that nature did what every Rose grower should do—cut back the old wood practically to the ground.

The blossoms of Hybrid-perpetual, Hybrid-tea and most ever-blooming varieties are produced on *new* wood, so why load up the plant with useless timber? On the other hand Climbing Roses produce flowers on their *old* wood.

When planting a Rose, dig the hole deep enough to hold the roots naturally and have the plant a couple of inches deeper than it was before being removed. Fill in the top soil first, add well-rotted cow manure and pack it firmly. Then cut your Rose back to within seven inches of the ground and mound or draw the earth up around the top so that just the tips of the branches are sticking out. Leave in this

condition for about ten days and then level off the mound carefully, and you will find that the new shoots are coming nicely and later that this new wood is the part of the plant that produces the rose.

Roses in this latitude do require winter protection, and I have gathered that the best method is to draw up a mound of earth around the plant to a height of from 10 to 12 inches and cover the area between the Roses with strawy manure or cornstalks. Some use old sacks or burlap to wrap around the bush, but the heaping of the earth up around the plant is essential.

Climbing Roses are not hardy enough to be left without protection and should be taken down from the trellis and laid flat on the ground. As much as possible of the old wood on Climbers must be saved since the old wood produces the flowers. Cover the vines with straw or earth or both and hang up again on the trellis in the spring.—J. C. KNIGHT, *Spokane, Wash.*

The Scentless Musk-plant

TO THE EDITORS:

Reading the interesting article "Fragrance in the Garden" in the January number of the GARDEN & HOME BUILDER (pages 361–363), I have come upon your note asking for facts concerning the disappearance of the old-fashioned Musk-plant. I cannot solve the mystery, but a little experience I have had with the plant may possibly be of interest.

Two years ago Miss Gertrude Jekyll wrote me of this loss of perfume in the modern plant in England; and acting upon the theory that it might be due to too much inbreeding by seedsmen, I decided to secure some fresh seed from some of our wild plants on this coast. The species is not very common in southern California, and when found is often without scent; so I sent to a correspondent in Oregon, the state where David Douglas got the first specimens. The supply sent me was obtained, I was assured, from plants possessing the real odor. Part I sent to Miss Jekyll, with what result I have not heard; the rest was sown in Pasadena and produced as fine a lot of plants as you ever saw, but every one *absolutely scentless*!—CHARLES FRANCIS SAUNDERS, *Pasadena, Cal.*

Proliferous Calendula

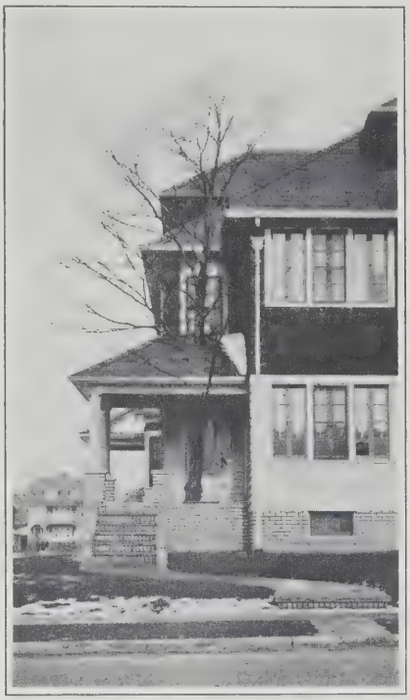
TO THE EDITORS:

I was so interested in the development of an ordinary Calendula that I thought others would also like to see it. I am enclosing photograph.

The plant was grown in the greenhouse and produced blooms in the regular manner about 2 inches in diameter. Two flowers behaved differently. After coming up in the usual way and shedding the petals they threw out a multiple of little stalks with smaller flowers varying from 1 inch to $1\frac{1}{4}$ inches in diameter.—L. T. WARNER, *Connecticut.*

Proliferation in Calenaula

—Proliferation as occurred here is by no means uncommon with flowers of the Daisy family which, of course, are not simply flowers but are aggregations of flowers gathered together in a head. The familiar Hen-and-Chicken's Daisy is a variation of this type which persists. Under high cultivation this appearance often occurs. In a sense it is a continuation of growth when normally it should cease. —ED.



This city home-owner solved the problem of having both veranda and tree on the same spot by building the roof around the trunk of the tree. (See Mr. Dreher's letter below)

"The Glory of Trees"

TO THE EDITORS:

Trees are highly valued adjuncts of city residence lots. The builder of the home shown here undoubtedly felt as did the poet, Joyce Kilmer: "I think that I shall never see a poem lovely as a tree."

Instead of cutting down the tree to make room for the porch, at the Cleveland, Ohio, home shown above, the floor and roof of the porch were built around the tree.—A. H. DREHER, *Cleveland, Ohio.*

Amount of Acidity in Soil Responsible for Change of Flower Colors

TO THE EDITORS:

Cases of change of color in flowers, similar to the one described in the letter by A. H. Botsford in the January number of GARDEN & HOME BUILDER (page 367) seem to crop up ever and anon. I believe that within the last year or two at least one letter describing similar experiences with Iris was published in your columns. As far as I know there has been little or no systematic investigation of such phenomena, but indications point to some connection between the acidity or alkalinity of the soil and the colors resulting in plants grown in it. The chemical constitution of a number of the colors of flowers has, I believe, been worked out with the result that a number have been shown to have the properties of "indicators," i.e., they change colors with different degrees of acidity or alkalinity (different "$_{p}$H"). It has also been observed that such colors are actually dependent upon the reaction of the plant juices. The relation between the reaction of the sap and that of the surrounding soil is, as far as I know, much less definite, but the indications are that the former is frequently affected by the latter. Therefore it may well be that the change in color resulted from a change in the soil reaction in the two environments. Although we are always advised to grow Bearded Iris in a limed soil (slightly alkaline) it may well be that a plant might get along under more acid conditions and show quite a different color. Parallel cultivation of several plants of such an Iris in soils of varying reaction might be well worth trying.

And now to drop a tear of my own: will some kind reader please tell me what fundamental difference there is between the comparatively new Digitalis "Shirley" and other Digitalis? Such varieties as the Maculata Superba and others grow and bloom beautifully for me. Six-foot spikes have not been uncommon. Now for two seasons I have sown seed of the Shirley under the same conditions as the others. The Shirley plants come up, develop about two or three leaves, cease growing, and quietly die. They have never grown more than one-half inch high when plants of other varieties from seed sown at the same time were four or five inches high and very vigorous. If special treatment is necessary surely reliable seedsmen might mention it.—JAMES C. ANDREWS, *Claymont, Del.*

—This is the first suggestion that has reached us of any peculiarity in the Shirley Foxgloxes, and is not according to our own experience or that of anyone we know. How about it? ED.

Don't Ticket Sports as Worthless

TO THE EDITORS:

Though it may have been a freak member of the Cosmos family, its flowers were far more striking than those exhibited in the ordinary double-crested Cosmos. I carefully guarded the plant, the only one of its kind in all my plantings.

Particularly abundant in blossoms, of the most delicate, softest lavender-pink imaginable, it surprised and deceived numbers of flower lovers. One insisted the flowers were a type of Aster! Another, that they were lovelier than Carnations. They got firm hold upon the affections of all observers; the agree-

Perfect doubling in Cosmos

ment unanimous that they deserved space and attention in any garden.

To just what this "sport's" remarkable difference was due one can hardly say, as the plant was perfectly normal in other respects. Practically the full quota of foliage, each leaf as lace-like and perfect as those of true type, and of the same location and soil. Yet certainly, by one of nature's tricks, it had beaten hybridizers so intelligently and successfully producing such marked, marvelous improvements over old Cosmos types. It was a question for plant breeders to study in order to determine how such blossoms might be "bred in" with the commercial varieties. Perhaps such has been done; does any one know?

A lot of joy and genuine pleasure would have been missed had I uprooted this freak when I knew it untrue. Its grace and dainty, airy beauty of frilly blossoms filled to the uttermost with softly hued petals made it a most interesting creation strikingly attractive and most satisfactory.—GERTRUDE SHOCKEY, *Georgetown, Ohio.*

—The double Cosmos has been offered as one of the "novelties" of recent years. As we have seen it there was a series of prominent "guard" rays not shown in this variation. The doubleing is not a fixed character, however, and since singles are to be expected from a packet of seeds. —ED.

The Little Blue Garden

TO THE EDITORS:

While nature has been generous with her everchanging skies of blue and her restless seas of the same shade, she seems to have been reticent about the number of blue flowers she has created for us.

Perennial flowers in blue (or any shade), while most satisfactory, require, for the most part, two years before they bloom. Therefore they are best started the preceding August, or better still, purchased in clumps where the roots are older and naturally more prolific in bloom. So this is rather more about flowers from seed, the annuals which bloom the first season and die with the early frosts.

When the blue Dutch Hyacinths and the small Grape ones and the tiny Scillas have sung their timid swan songs, and when trees are in leaf, it is time to plant the first series of Bachelor-button seed. These are apt to be what florists call "croppers" and like Babybreath and Candytuft require planting preferably two weeks apart. They may be procured in separate colors. The blue is of a heavenly shade—called by the English, where in their land they grow wild in the fields, cornflower.

Follow these with Nigella or Love-in-a-mist. The mossy green foliage about the flower itself is quaint and faintly reminiscent of the Moss Rose buds in our grandmothers' gardens. At the same time put in annual blue Larkspurs, not so tall as the hardy ones and not so stately, but good fillers-in when the days grow so warm that it seems a sacrilege to put the more vivid reds or yellows in the family vases, bowls, and baskets.

For blue vines, try the Crawfurdia, a species of the rare gentian blue shade that bears deep bell-shaped flowers. These climb six feet high. The blue Moonflowers whose seeds should be soaked overnight in lukewarm water and a small incision made in each with a sharp knife, grow much higher, bloom only at night, and emit a truly delightful perfume. This is odd, but most blue flowers are odorless.

For years I tried in vain to make the Arctotis or blue Arctic Daisy bloom for me, only to find it growing serenely and luxuriantly one summer's day along an abandoned path at the city's edge. Since then it has grown and flourished for us.

An extensive genus of half-hardy and hardy plant is the Pentstemon. The bluish shade is particularly effective and they bloom until October.

It seems to me our English cousins employ the Lupine family more than we to grace their gardens with their tall spikes of blue. And just with these, one may test out the Queen-Anne's lace, a truly fairy-like little plant with its feathery flowers and delicate foliage. It is really sweet with Babysbreath.

Last of all in seeds I recommend the Schizanthus or Butterfly-flower, easily grown and a splendid plant to carry in to the house for winter-blooming. Many other shades come in this variety, all equally charming.

In conclusion, to go with your little blue garden there are exquisite wild flowers in blue. I refer to the old-fashioned Bluebells, of which we have found two. And in the late fall, when that hush comes upon the lowlands, you will find if you seek it, a blue flower rather, like a miniature Canterbury-bell.

Of course, these wild flowers are rather off the beaten track but, like any really precious thing, are well worth the trouble in an age where so many lovely flowers find little or no sanctuary.—LAURA GASKELL HAMMERSLEY, *Ontario, Canada.*

Against the Japanese Beetles

TO THE EDITORS:

What may be an aid in the warfare against the Japanese beetle, I believe, is the planting of plenty of Geraniums in gardens and orchards and truck patches. There is always a demand from the public and florists for such potted plants, and their sale pays for the original cost. Last year in a garden near here heaps of Japanese beetles were found dead under the Geranium plants, while those on the partly eaten leaves seemed to be doped and dying.

Concerning the Musk Plant about which some of your readers have been inquiring, we find that it is tender around here as an outdoor plant and more successful in the greenhouse. We have found plenty of it in gardens in Scarborough, Northsea, Yorkshire, England. It likes moisture and warmth and is really a house plant in North America. It is a plant gem and exquisite, like the golden Cowslip of English gardens. Seeds may be had from almost any good seed house.—GEORGE M. CHATBURN, *Philadelphia, Pa.*

Plants That Differ as to Sun and Soil

TO THE EDITORS:

I am afraid we were too kind to our Begonias of the Vernon type last summer. We fed them lavishly and gave them too little sun. Result, a rampant growth and not so many winter flowers as usual. They say the Begonia does not like much sun and I always suffer when I see a bed of that flower sweltering in the summer glare and turning a coppery red all over; and yet I think it is good for them, for if taken up in that state they will blossom all winter in a window. A few of ours are blossoming right along, but too many are still green and growing.

The fact is, we may talk of light and air and suitable soil as much as we will, but it is the sun after all that turns the trick. Sometimes a plant may not need the full glare and sometimes it may not seem to need any, but they all demand it in some form. I do not see how the greenhouses can show much growth with so little sun. When I went to the San Diego Panama Fair and saw, right in the raw sand near the entrance of the horticultural building, gorgeous Amaryllis coming up apparently wild and growing fast I knew it was the sun. Once at Nassau a darkey woman pulled up her Amaryllis by the roots all budded, because she wanted a coin for them. I told her they would not blossom, but she knew they would and in a sunny window they did.

Still it is sometimes soil or planting conditions that prevent blossoming. I have long complained (without arousing any sympathy) that the Dahlia did not blossom with me and finally I think I have discovered the reason. There is not push enough in the soil they are planted in to give them the quick, early start they need. At Victoria Park, Niagara Falls, Ont., we learned that the big success with Dahlias was accomplished by starting every plant on a bed of worked-over manure down a foot or so, with a pad of good soil between. In this way the plant could choose the food it wanted and never lack. Hence Cactus blooms as big as a small dinner plate.

I am sure there are other flowering plants besides Begonias and Dahlias that demand special (that is, varying) handling, as to sun. soil, and lesser details.—JOHN W. CHAMBERLIN, *Buffalo, N. Y.*

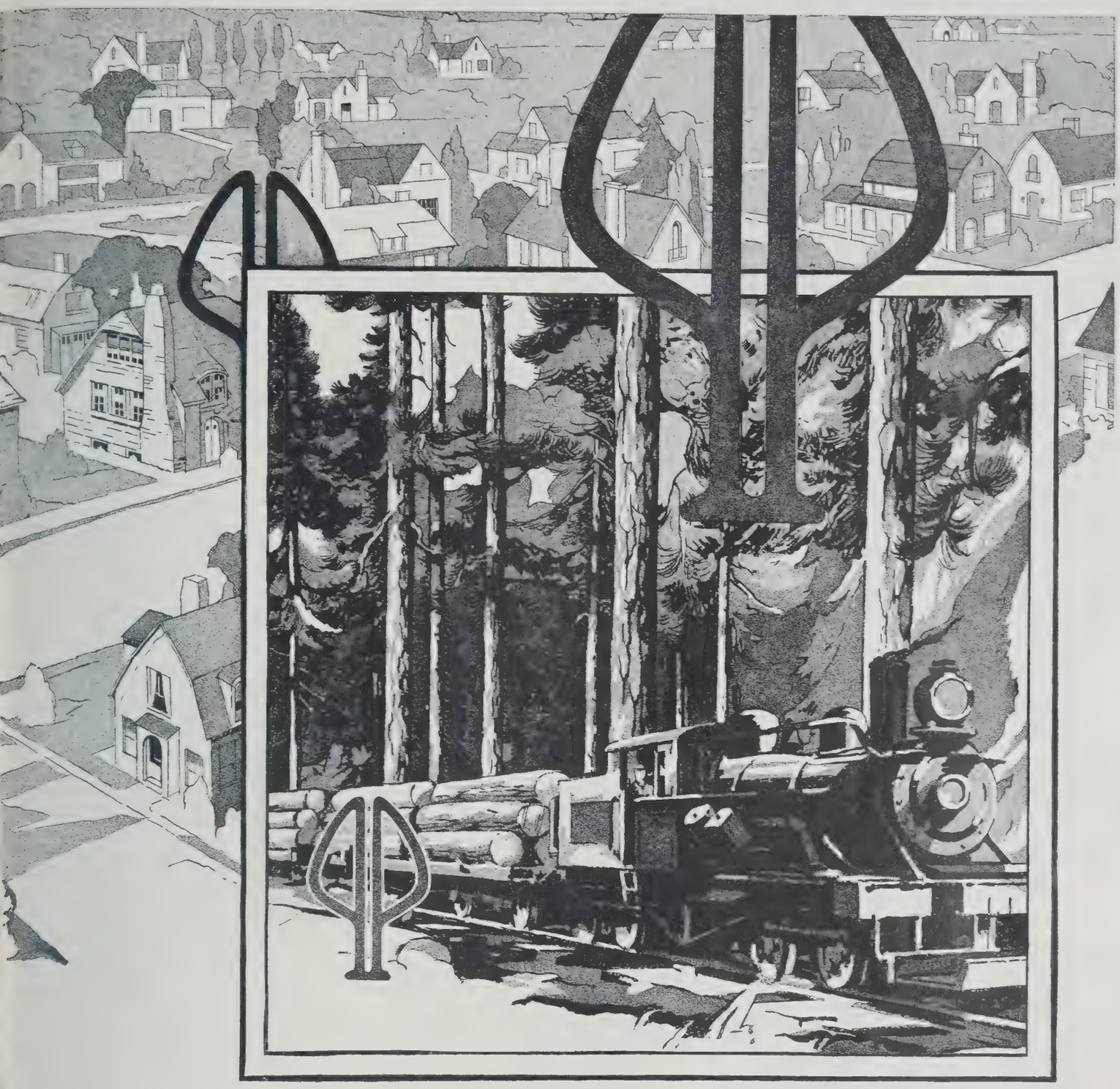
Treatment for Auratum and Madonna Lilies

TO THE EDITORS:

Possibly my experiences with Lilium auratum may be of some help to O. W. Stewart and Mrs. F. A. Duerr (see G. & H. B., January, 1926, page 368). I found my plants doing the same thing, growing weaker and weaker, and the leaves turning yellow. I dug my bulbs up and found that at the center of all the bulbs where the roots start was a brown pithy substance which, of course, prevented roots starting from the bulbs. With a sharp knife I removed all the diseased part down to the healthy bulb, and replanted them in good soil. Later I dug them up to see how they were coming on and found them in a healthy condition.

I have found the same trouble in Paperwhite Narcissus, and have treated them similarly with success. When my Madonna Lilies have turned yellow and dropped after a healthy growth I have found that it generally came from a large pinkish worm that had bored up into the center of the flower stalk. It can easily be found and destroyed by cutting the stalk back and following the tunneled stalk down to the culprit.

Gruss an Teplitz is my favorite Rose, and by keeping the old wood cut back as the new shoots are thrown up I have anywhere from a dozen to three dozen Roses on them all the time from June until the snow comes. The red flowers are actually frozen stiff. I have very good luck with slips of this Rose also.—MAY BURROWS MILLER, *Oswego, N. Y.*



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The Pick o' the Pines

Hearthstone Editor's Chat

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The Compact Kitchen

TO DAY there is no such thing as a kitchen in the old-time sense of the word. It has become, instead, the housewife's office, her workshop where everything is compact, step and labor saving. It has become a room not only planned for efficiency but for actual pleasure in doing the once dreaded "kitchen work."

The modern kitchen is very apt to be the cheeriest room in the house. It has floors of Handcraft Tile linoleum as rich and colorful as old tile; it has warmly tinted walls, with rubber curtains at its windows in tones of rose or blue or lavender or green. Even the bowls and pots and pans hold color and brightness.

The huge pantries and closets of another day have given way to space-saving cupboards built into the wall, opening at turn of a button to disclose ironing boards that let down on steel rods, broom and mop racks, etc. Clothes and towel driers fold up against wall or ceiling to be lowered when needed, while enameled "kitchen units" may now be purchased like sectional bookcases to act as kitchen cabinet, broom closet, china closet, or ironing board. These may be kept all together on one side of the room or may be separated and placed wherever space permits.

To-day, floors are not scrubbed. We use wax for both cleaning and polishing, and this is not done by hand but is both spread and polished by various electric and other kinds of polishers that make light of this work. Doing up the dishes no longer means hours spent with hands in dish water and all the attendant muss and fuss. The dishes are now placed in dish-washers that do a thorough job of scrubbing them and then rinse and dry them in racks.

The pressure cooker, the electric fireless cooker, the electric range and the automatic heat regulator that turns off the heat when the cooking is done has made of this one-time laborious task something that is a pleasure and in a room that may be as cool as the drawing room. Electric refrigerators have banished the iceman and his muddy trail and provide clean, sanitary ice as well as guaranteeing freshness of foods.

Electric clothes washers and ironers do not suggest "blue Monday" and washtubs. They are distinctly ornamental pieces of equipment and they have reduced laundry work to a minimum. In fact, there need be nothing but pleasure to-day in kitchen work provided that the kitchen be well equipped. And to equip it thoroughly is a matter of economy in the long run, since it will reduce the servant problem to its very lowest denomination.

In planning such a kitchen, the floor is the place to begin. What lasts longest, needs least upkeep, looks best, cleans easiest and lends most cheer and color? The answer to this may be one of four materials—wood, linoleum, prepared plastic compositions, or rubber tile. In view of its durability and richness of color, and ease of cleansing linoleum will doubtless be first choice especially since it is non-absorbent and is therefore sanitary. It is also very resilient and is therefore easy on the feet. Since no draft can possibly go through it, it is also warm. By waxing, it is easily kept clean and takes on a beautiful soft luster.

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The White Door Bed Co.

With the floor covering and its colo chosen, comes the question of wall These may either be painted in wash able oil paints or covered with Sanitas, tha washable cloth wall-covering that is to be ha in every shade and color and design.

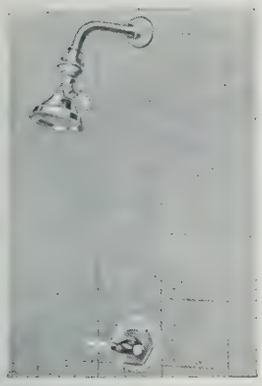
An important factor in the well-planne kitchen is the lighting, both natural an artificial. With the windows properly placed comes the question of curtains that can brin such a sense of charm when rightly choser Since in every kitchen there is the steam tha necessarily comes from cooking, broilin stewing, it is advisable that these curtain be of some material either rubberized or s treated chemically as to be non-absorben and easily cleaned with a damp cloth. Ma terial of this kind that is as soft as silk, fine i texture, rich in color and is not expensiv may now be purchased by the yard. Thi may be gathered and ruffled as desired an may be had in figured or plain tones to blen with walls or floor.

For electric lighting, there must be plent of floor plugs so that the various utensil need not be attached to the lamp sockets Most house circuits will deliver a total o 660 volts. If, therefore, some utensil requirin 350 volts be attached to a socket providin 300 volts for lighting, it will result in th blowing out of a fuse, a warning that you ar asking your light circuit to do the impossibl thing. In view of the fact that most electri lighting companies make a service rate that i cheaper than that for lighting, from the poin of economy alone floor sockets with a servic rate should be used.

In the maidless house, a breakfast noo should be part of every well-planned kitchen Here with the least effort and labor, breakfas may be quickly and delightfully served an it will provide an attractive spot for th children's luncheons. So great has been th demand for these convenient, attractive an labor-saving nooks, that their furniture ma now be purchased on the ready-built plan ready to install. This may be done in tw ways—as permanent fixtures with tables seats, etc., screwed to the floor, or they ma be of the type that fold back against the wal in space-saving fashion.

Small china closets about four feet high ma be purchased ready to install. These ma be used if desired to separate the breakfas

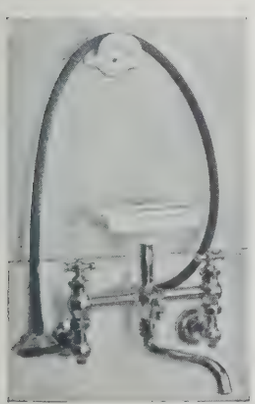
Plumbing Fixtures Purchased on Price are Seldom Satisfactory



H—952½ Mixometer Shower

H—2276 Unit-Acto Lavatory Fixture

H—2460 Deshler Bath Fixture



H—1894 Swing Nozzle Sink Fixture

FURNITURE can be purchased on price, and when it wears out or is no longer satisfactory, you can easily dispose of it.

—Not so, however, with plumbing fixtures. These are usually behind the walls—built-in—and taking them out means tearing down the walls or tearing up the floors.

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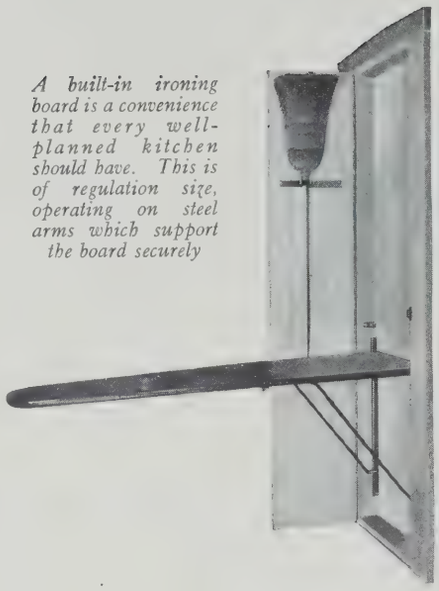
nook from the rest of the kitchen, making a most useful as well as pleasing "wall." For the very small apartment there is a complete kitchenette that may be bought ready to set up. Condensed into the smallest possible space is a small table range with oven, a refrigerator, sink, with plenty of closet and storage room. The whole looks like a kitchen cabinet and is finished in white enamel. There is also a small kitchenette range that provides ample cooking facilities in the smallest possible space—about 30 inches square, with white enameled storage compartments above and below the range.

To further make of the kitchen an efficient compact workshop, there are small electric grills with 3 or 4 compartments so that toast may be made, bacon and eggs prepared at the same time. There are also numerous small table stoves with two or three burners and even a small oven to put over one burner only. Waffle irons may be had that can be used at the table and that brown the waffle on both sides at once and eliminate all the old-time labor in making this delicious breakfast or Sunday night supper dish, while even the tea may be made in an electrically operated teapot.



A built-in ironing board is a convenience that every well-planned kitchen should have. This is of regulation size, operating on steel arms which support the board securely

In fact the modern 8 x 10 kitchen has adequately taken the place of the vast room of olden times. Well equipped and planned with as much painstaking care as the modern business woman gives to her office, the kitchen can be equally as efficient an office and provide a great deal more leisure and charm.

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GARDEN & HOME BUILDER, GARDEN CITY, N. Y.

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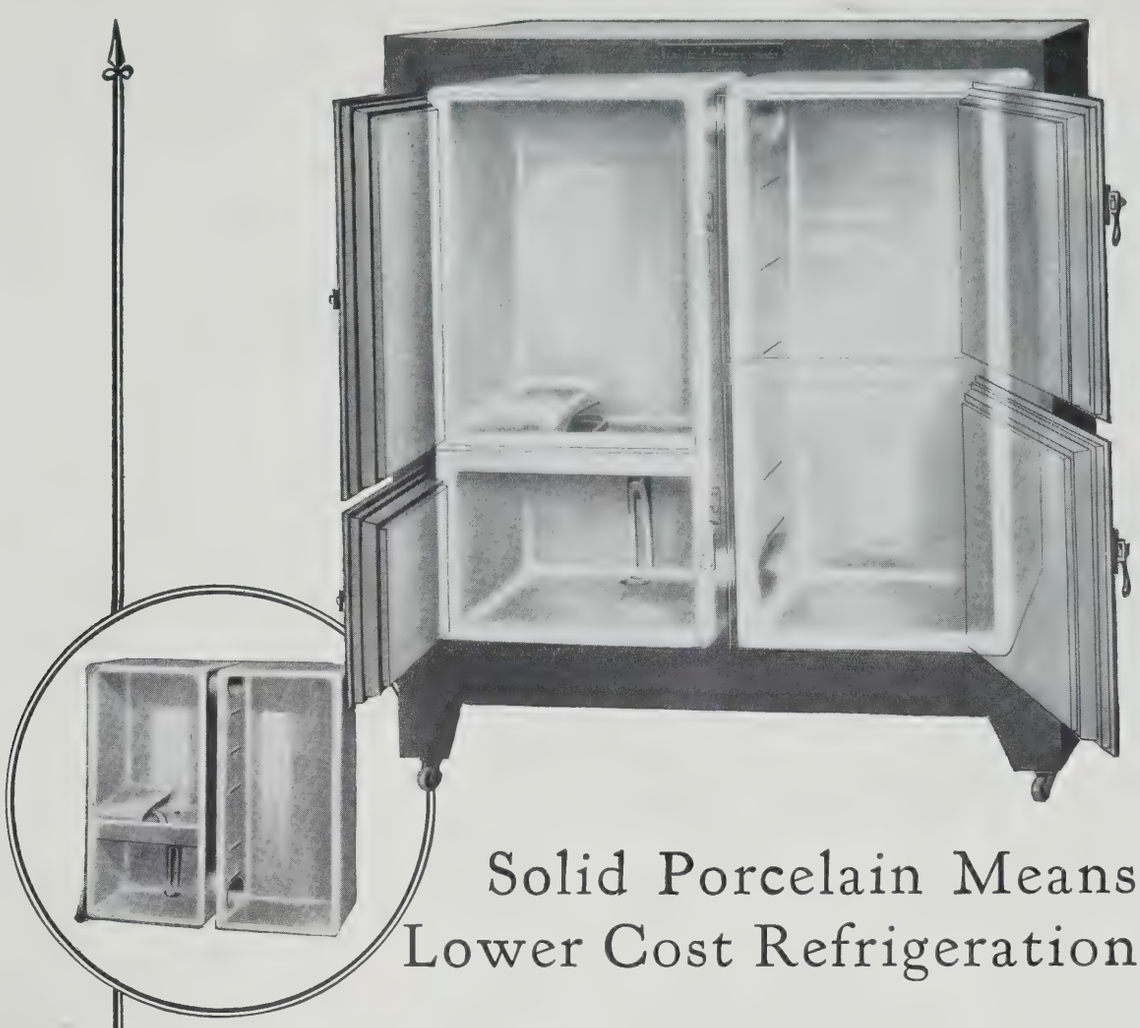
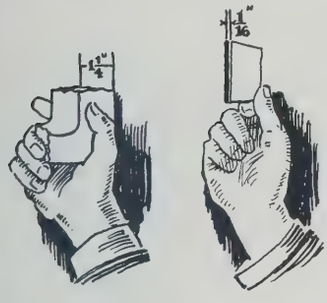
MARCH



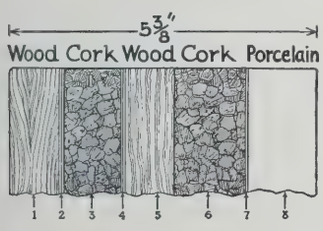
China surfaced crock interiors of solid porcelain—cast in one piece without crack, crevice or seam—act as stabilizers—maintain low temperatures longer—prolong life of electric refrigerating machinery—provide unheard of economy—and perfect food preservation.

Solid Porcelain Means Lower Cost Refrigeration

ELECTRIC refrigeration has placed new requirements on refrigerator cabinets. Low temperature alone is not sufficient—absolute sanitation and economical operating cost are now highly essential. Jewett Cabinets meet squarely all three of these requirements with features found only in the Jewett. Unequaled ability to maintain low temperatures more uniformly than any other cabinet—unheard of economy in refrigeration bills—and prolonged life of refrigerating machinery are results you'll enjoy with a Jewett. And with a Jewett Cabinet you will have these advantages indefinitely. For Jewett's super construction and solid porcelain linings—found only in the Jewett—not only insure absolute sanitation and economical operation, but they defy wear.



Jewetts are lined with SOLID porcelain, 1¼ inches thick. All other so-called "seamless," "one-piece" or "cleanable" porcelain linings are made of thin sheet metal coated with baked enamel. That's why Jewett Refrigerator Cabinets never dent, chip, peel, or rust out and why "they last a lifetime."



Cross section of Jewett walls—top, bottom and sides—twice as thick as ordinary refrigerators and insulated with pure sheet cork. That's why Jewetts lock the cold in and the heat out, and cost less than any other cabinet to operate.

The Jewett Co. does not make refrigerating machines, but specializes on cabinets that can be used with any of the present electric freezing units—sold exclusively through dealers handling such equipment.

THE JEWETT REFRIGERATOR COMPANY
120 Letchworth Street *Established 1849* Buffalo, New York
39

JEWETT
SOLID PORCELAIN REFRIGERATORS

Have Beautiful Waxed Floors

—this Quick Electric Way

Beautiful waxed floors! Of course you want them in your home. Every woman does.

They are so rich looking, have such a beautiful lustre; they are so clean, so easy to care for, and they actually cost less to keep up than any other finish.

It's easy to have beautiful waxed floors now. And convenient. It isn't necessary to have your house torn up for days at a time. Ask your painter to wax your floors *electrically* with a Johnson's Wax Electric Floor Polisher—then he can do them all in just a few hours. You don't have to wait for WAX to dry—it hardens ready to polish in five minutes.

JOHNSON'S WAX *Electric floor Polisher*

It's no work at all to keep your floors bright, clean and beautiful with the Johnson's Wax Electric Floor Polisher. This marvelous new machine polishes floors ten times faster and better than other methods. Gets under davenports and other low furniture. Runs from any light socket for 1½c an hour. Costs only $42.50.

Are You Building?

Tell your architect to specify *waxed* floors—this will give you the most beautiful, practical, sanitary and economical finish. With *waxed* floors costly refinishing can easily be entirely eliminated. Our book on Home Beautifying tells how.
Write for a copy Free and postpaid.
New edition just off the press.

S. C. JOHNSON & SON
"The Floor Finishing Authorities"
Racine, Wisconsin
(Canadian factory: Brantford)

GARDENING FOR THE BEGINNER

The Month's Reminder—March

As to Time and Place: In gardening practice a date can only be approximated as seasons vary and local conditions will have some influence. Generally the latitude of forty degrees at sea level and a normal season is taken as standard. Roughly, the season advances or recedes fifteen miles a day, thus Albany would be about ten days later than New York (which is latitude 42). The latitude of Philadelphia is a week earlier. Also allow four days for each degree of latitude, for each five degrees of longitude, and for each four hundred feet of altitude. Latitude 40 passes through Philadelphia, Pa.; Columbus, Ohio; Richmond, Indiana; Quincy, Ill.; Denver, Col.

How to Use This Guide: Suggestions as to the most important things of the month are given in this department so as to "remind" the gardener of the current duties. For routine details of such things reference should be made to standard handbooks and guides. It is impossible to make a complete manual of practice in each number of a periodical magazine. Yet timely articles will be found elsewhere in each issue, and references to back numbers will often solve the immediate question. Moreover, the editorial staff stands ready to help any reader with personal advice by mail. A self-addressed stamped envelope should be enclosed with the question.

Who Writes This: The advice and instruction in this department are the gleanings of many years' experience in practical gardening matters by competent amateurs and others who have "been through the mill." The contributions are made from various sections of the country: for example, Mr. Jesse A. Currey contributes from Oregon; Mr. Theiss from Pennsylvania; Mr. Henry Gibson from Pennsylvania (formerly from New York); Mr. Sherman Duffy from Illinois; Mr. P. T. Barnes, out of a world-traveled experience; Mr. A. Kruhm, from an extensive Eastern acquaintance; Miss Ethel Hutson from the far South; Mrs. E. Urquhart from California and, in addition, occasional notes from elsewhere and by the editorial staff and associated contributors of experience.

AN EARLY START WITH SEEDS

SOME people trust to luck and start their annual seeds outdoors, but I found that I had a longer blooming period—and so more cut flowers or more show flowers—if the seeds were started indoors. "Flats" (i.e., boxes about three to four inches deep and as large as may be conveniently handled) serve best. Put the seeds in rows, not too thick, rows 2 to 2½ inches apart. When the first true leaves appear transplant the seedlings to other flats setting the little plants again about 2 to 2½ inches apart each way. Grow in a cool place and they will be nice-sized plants to set out when the danger of frost is past, or earlier for the hardier annuals if the plants have been hardened off.

Want to pick the first tomato in your neighborhood? Those Tomato plants that were started in February should be coming along. Keep them where the night temperature is from 55 to 60 degrees. Transplant to two-inch pots, then shift to four's and finally sixes. Just keep them growing. If the plants show signs of flowering dry them off just enough to stop rampant growth but not enough to injure them. When they bloom fuss around the flowers with a camel's hair brush and a little butter plate or watch glass, gathering pollen and putting it on the stigma to induce pollination.

Eggplant and Peppers likewise need to be kept growing. It is better to pot them than to grow them in flats as they do not become potbound if shifted (a four-inch pot will be big enough) nor will they be checked when putting in the garden, as they would if grown in flats and the roots injured when transplanted.

EARLY POTATOES—The trick in getting very early potatoes is to secure the seed potatoes now. Buy certified seed potatoes! Sterilize them by soaking in a solution of bichloride of mercury for half an hour to kill scab and rhizoctonia; then put in sterile trays and put in a warm, light place to sprout. Start this sprouting game two to three weeks before planting time.

SWEET-PEAS—The gardener who prepared the ground last fall for his Sweet-pea seed is "sitting pretty" now. All he has to do is to sow the seed—about March 15th in the latitude of New York. The other fellow—oh, he waits until the ground is dry enough to work without puddling it. We suggested last fall that preparations for spring be made in order to get earlier and better plants.

LAWN—Spring-made lawns are successful only when made early. The ground must be put in shape just as early as possible and the seed sown in time to allow the individual grass plants to become well established before hot weather comes. If you don't do this, a poor lawn will result and probably must be made over next fall. For full details on lawns read "Lawns and How to Make Them" by Leonard Barron.

RHUBARB—To grow good rhubarb spade the ground deep where the roots are to be set, and mix in the soil a heavy application of manure—a six-inch dressing if you can get it. Set the plants 18 inches to 2 feet apart in rows 5 feet apart. Give heavy applications of manure each year when the pulling season is over, about mid-June. Rhubarb needs lots of plant food.

ASPARAGUS—A garden without asparagus really is not complete.

(*Continued on page 70*)

How can screens beautify the home?

This free booklet tells how to correctly and attractively screen every type of door and window.

The architect condemns the ordinary clumsy wooden screen. He says: "Choose unobtrusive screens, with narrow, metal frames, strong and durable, and with non-rusting bronze cloth screen—like Higgin All Metal Screens. They assist in securing my architectural effects."

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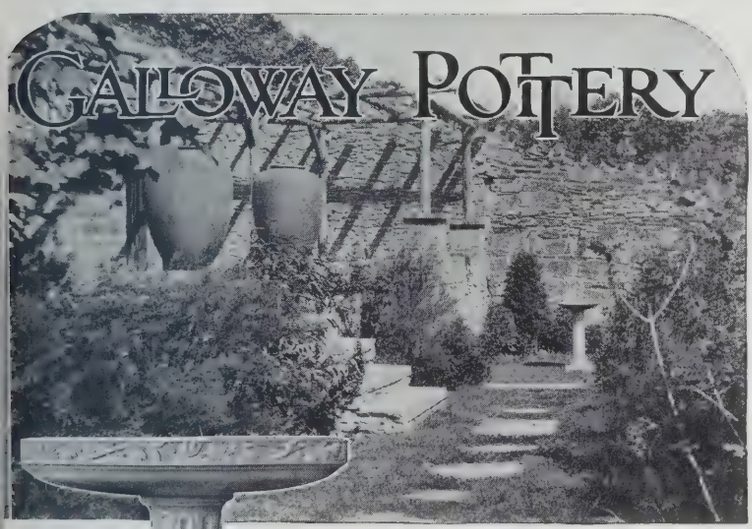
THE HIGGIN MFG. CO., 511 Washington St., Newport, Ky.



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Established
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THE graceful lines of classic jars and vases in the midst of flowers and shrubbery—a bird bath inviting the birds to linger in the garden—a fountain splashing and sparkling in a crystal pool—are but a few of the delightful effects obtained by

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Glowing tiles . . . tinted stucco . . . a multi-colored picture beneath a vivid sky . . . a doorway such as one might see along the azure Mediterranean. How beautiful! But how important is its every detail.

For your doorway—in Florida, California, and northern climes as well—Sargent prescribes the handle shown below. It is of solid, time-defying brass impervious to salt air and finished in black and green. Connecting as it does with a Sargent cylinder lock—this piece is infinitely more than so much Spanish atmosphere. There are Sargent locks and hardware for practically every style of architecture. Select them with your architect. Sargent & Company, *Hardware Manufacturers*, 48 Water Street, New Haven, Conn.

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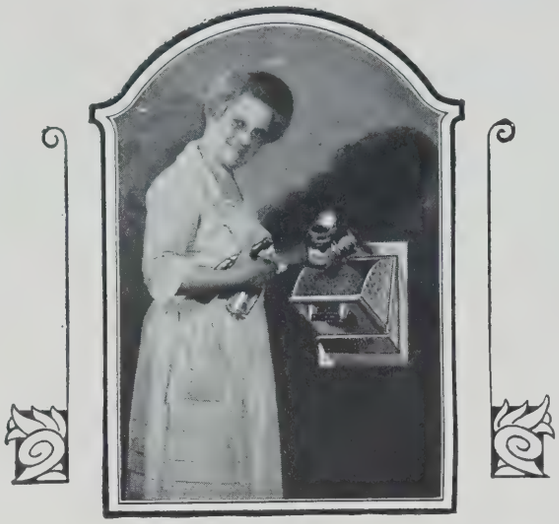
LOCKS AND HARDWARE



Two Hundred $25,000 to $50,000 Homes

and not one Garbage Can

ONE of the most beautiful and extensive residential projects in the country is "Milbrook-in-Greenwich" at Greenwich, Conn. Within this subdivision is a private golf course, club house, tennis courts and swimming pool. Each lot averages about an acre and the contemplated two-hundred-odd homes range from $25,000 to $50,000.

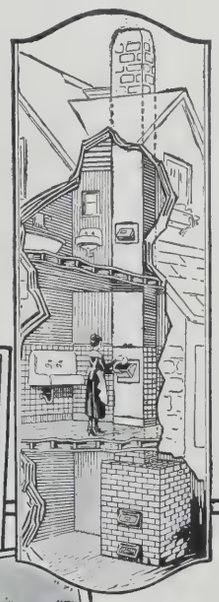
The three houses appearing below, give an idea of the type of residences being erected in this development. Kernerators have so reduced fire hazard, saved steps for the housewife and effected a new neatness to house and yard that every home is going to have one. A clause in the formal deed requires the purchaser to include a Kernerator in his home. There will never be a garbage can or garbage wagon in this park-like community.

Your Kitchen Can Have It

Every new home can and *should* have the Kernerator. No garbage cans, no rubbish pile in yard or basement. Simply a handy, hopper door right there in the kitchen. Into it, drop everything you want to get rid of—not only garbage but sweepings, papers, tin cans, bottles, shavings, broken crockery old magazines, cigar and cigarette stubs. Then forget it! No expense—just touch a match to the air-dried acumulation in the basement combustion chamber about once a week. Metallic objects are flame-sterilized for removal with the fine ashes.

Your architect or contractor knows and recommends the Kernerator. Ask him or write direct to

KERNER INCINERATOR COMPANY
731 East Water St. Milwaukee, Wis.



Here is a typical Kernerator installation with handy hopper door also on second floor. It costs no more than a good radio set and you get rid of the garbage nuisance forever.

KERNERATOR
Built-in-the-Chimney
Reg. U. S. Patent Office

(*Continued from page 68*)

For two months it furnishes one of the finest of vegetables and the thrifty gardener will can enough for the year's use. Serve some of this home-canned asparagus to your friends in mid-winter and hear the nice things they say. You can get nothing in the way of asparagus out of a tin can that tastes anything like the home-made brand. Set one-year old plants this spring. Washington, a rustless sort, is the best to grow.

ROOT CROPS—particularly parsnips—must be sown as soon as the ground can be worked. One of the principal secrets of getting well-shaped symmetrical roots is a deep soil. So where root crops (Carrots, Beets, Salsify, and Parsnips) are to grow, spade the ground 15 to 18 inches deep and work the soil as fine as the proverbial ash heap. It must be free from stones.

SWISS CHARD—We do not eat enough green stuff to provide crude fibre, or roughage. We absolutely must have it to balance those highly concentrated foods like wheat bread, which has had all the crude fibre bolted out of it to make it look pretty. Swiss Chard certainly helps. A row 20 feet long will provide all the "greens" a family will need all summer. As soon as the leaves are cut off another crop starts pushing out if the crown has not been injured. When allowed to grow large the midrib is removed from the leaf and served the same as asparagus.

CUCUMBER AND MUSKMELON—Start a few plants indoors for the early crop. Let me tell you how to eat these cucumbers. Go out early in the morning while the dew is yet heavy on the plants and gather the day's supply. Put them in a cool, damp place where they cannot wilt; then when you are thirsty, peel one and eat it like you would an apple. Oh, boy, they are fine! Cared for and eaten in the manner described there is no stomach ache in them. Sliced, vinegared, salted and peppered things served as cucumbers are not to be mentioned in the same breath. Wilted cucumbers dosed with condiments are like salt water fish in St. Louis—too far from home.

EARLY CABBAGES AND CAULIFLOWERS—Did you start these early in February as recommended in last month's GARDEN & HOME BUILDER? Get them outdoors as soon as they have been hardened off sufficiently not to be damaged by frosts. The bane of the early crop of young cabbages, etc., when set in the garden is the cabbage maggot. Damage is easily avoided by putting a disc of building paper about each plant. Make a little flat mound about each plant, then slip the disc about the plant. This prevents the fly from depositing eggs in the ground close to the stem. It is 99.9 per cent. preventive. Black rot of cabbage is prevented by soaking the seed for 15 to 20 minutes in a 1 to 1000 solution of bichloride of mercury. Dry and sow the seed.

SEEDS TO SOW—Just as soon as the ground can be worked sow *smooth* or round seeded Peas for the earliest crops. These will germinate when the ground is still so cold and wet that the wrinkled seeded kinds rot. Also sow Lettuce, both Loose-leaf and Head, and Radishes. Now, if you have done or will do all these things you will have made a good beginning for a garden; it is half made.

Next thing is to start the perennial garden. There are quite a number of hardy perennials that bloom the first year from seed. The catalogue tells you which. Start them early like the annuals first described.

REMOVING THE MULCH—Poke around in the border and begin to lift the mulch when the danger of "heaving" is over—when hard freezing nights are past. Do not get in a hurry, however. Just because the Hepaticas have bloomed do not think summer has come; they are only a promise of what is to come. If later the mulch can be worked down into the soil so much the better, but do not attempt it until the plants are all well started so you'll know where each one is and no damage will be done. If it is impossible to do that, then gather it up and place on the compost pile. Don't make a spendthrift offering by burning it.

A ROSE HERESY—A talk with Mr. G. A. Stevens a couple of months ago developed more rose heresy. His experience in his own rose garden in Ohio is that it is wrong to follow the time-honored custom of planting Roses two inches deeper than they were in the nursery. With the mulching, fertilizing and hilling up for winter protection the union gets deeper and deeper every year until in three or four years the union is 6, 7, or more inches deep. In his garden he found these deep-set Rose plants languished. His practice is to bring the union up to the surface like it was in the nursery and his plants grow better as a result. Roses are shallow rooted plants. To thrive their roots must be near the surface. They need well-aerated soil. Furthermore, when they get deep rooted, new roots soon develop from the canes above the bud, own root plants resulting with a useless appendage below. Most people know that many Roses do not do as well on their own roots as when budded on strong-growing stock.

COVERING BANKS—What will we cover raw banks with? The

(*Continued on page 74*)

A Tapestry-Inspired Linen

with the rich and brilliant coloring of L'Art Moderne

Designed by Schumacher, executed by one of the finest fabric printers in Alsace, it was accepted by the Paris Exposition of Decorative Arts

Into this printed linen of formal design the artist has brought that brilliant and original treatment of color which distinguishes the art of today.

Crimson, blue, old gold and green—gay flowers, parrots and sweeping draperies against the brown tones of conventional stone arches—this linen brings into a room an effect of bright sunlight.

The design itself is based on XVIII Century tapestry themes,—the flower-laden urn recalling the Georgian Period, the rich heavy drapery suggesting the splendors of Louis XIV's court and time.

So excellent is the workmanship and so successful the handling of color that this linen was chosen to hang in the Exposition of Decorative Arts at Paris in Pavilion I-55.

This and many other attractive Schumacher fabrics may be seen by arrangement with your decorator or upholsterer, or the decorating service of your department store. They will also attend to their purchase for you.

Write for our new booklet "Your Home and the Interior Decorator"

The most carefully planned interior may be entirely without beauty or interest because of faulty color treatment.

A decorator's wide experience with color and with arrangement are offered to you in the furnishing of your home and the selection of materials, without any additional cost to yourself. Why this wonderful service costs you nothing is explained in "Your Home and the Interior Decorator," an interesting and attractive booklet which we have just prepared.

This booklet, beautifully illustrated in color, will be sent to you without charge upon request. Address F. Schumacher & Co., Dept. D-3, 60 West 40th Street, New York—Importers, Manufacturers and Distributors to the trade only, of Decorative Drapery and Upholstery Fabrics. Offices also in Boston, Chicago, Philadelphia, Los Angeles and Paris.

This linen embodies the spirit of the past with the freedom of present day art. Rich in theme and in color, it lends itself gracefully to interiors of various periods, and brings into a room an effect of bright sunlight

F. SCHUMACHER & CO.

ATLAS NOW ADDS BEAUTY TO CONCRETE'S STRENGTH AND ECONOMY

Lithograph by Thomas S. Boys

THE CUSTOM HOUSE
London

WESTCHESTER COUNTY COURTHOUSE, WHITE PLAINS, N. Y. BUILT OF CAST STONE MADE AND LAID IN ATLAS WHITE. BENJAMIN W. MORRIS, ARCHITECT. JOHN T. BRADY & CO., CONTRACTORS. CAST STONE BY EMERSON NORRIS CO.

THE plastic qualities and affinity for color of *Atlas White* Portland Cement, the most responsive of modern materials, put at the architect's command effects for which large outlay and the labor of many men were needed in times past. Its easily moulded masses hold endless possibilities of beauty blended with strength and permanence. Color, form and textures in infinite variety are brought within the limits of the average building budget, public or private, by the economy of concrete made with *Atlas White* Portland Cement.

All the dignity and grace that mark London's storied Custom House, beloved of painters and etchers, could be reproduced line for line in concrete made with *Atlas.* Just as the Westchester County Courthouse at White Plains, New York, conceived in the same restrained and classic style, was built of individual concrete units made and laid with *Atlas White.*

Concrete became the cheapest as well as the most enduring material when *Atlas* developed the first rotary kiln, thus standardizing quality and reducing costs. *Atlas White,* an equally important contribution, puts architectural beauty within the reach of every community, every home builder. These and other pioneer achievements have made *Atlas* the most practical and versatile of building materials, and the "standard by which all other makes are measured."

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Between the Atlas plants and the user, there is but one distributor—the building material dealer—who brings Atlas to the public cheaper than by any other method. Any architect, contractor or prospective builder is invited to write to this Company regarding the possibilities of concrete made with Atlas Portland Cement. Address all inquiries to 25 Broadway, New York.

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Made of Cypress

This Full Fledged Junior Greenhouse for so Little as $11.85

AT LAST, a real honest-to-goodness Junior Greenhouse at a most reasonable price.

But that isn't all.

With that price we give you an absolute guarantee of complete satisfaction.

A guarantee that means, when you receive the Junior Greenhouse, and after it is set up, if it isn't *entirely satisfactory to you in every way*, send it back.

Promptly and cheerfully, we will return your money.

What could be fairer?

Note those words, promptly and cheerfully.

Description

Of first importance, it's made of high grade cypress, the most lasting of woods for the purpose.

The glass roof slides up and down; or can easily be lifted off. You have ample room for 9 three foot long rows of plantings. That's equal to one long row 27 feet.

Think for a minute, of the countless seedling plants you can grow in it for early Spring setting out, and the many transplanted ones, having good husky roots, giving you a running jump over your neighbor's garden, of at least 4 weeks.

Think of the satisfaction of knowing, that regardless of whether the Spring is early or late, you can *always* have an early garden.

Early in the Spring and late in the Fall. Lettuce for Christmas for instance. Yes, and violets all winter.

Send at once for special circular giving detailed descriptions and telling of the multiplied joys owning one of these $11.85 Junior Greenhouses means to you.

Or better yet, send us your check or money order for $11.85, and we'll promptly ship one f. o. b. our factory. Price in Canada, 30% additional.

The earlier you have it, the earlier you can have vegetables to eat and flowers to pick.

$11.85 complete with special iron corner cleats, bolts, screws and everything needed.

Takes about an hour to set one up.

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Builders of Greenhouses and Conservatories

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Montreal	St. Catharines	Greensboro
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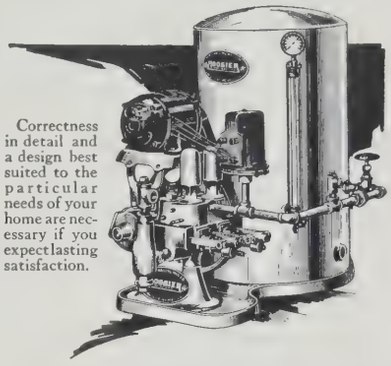
What are YOUR WATER NEEDS?



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"How To Have Running Water" contains, you will find, many valuable suggestions to aid you in selecting the proper equipment. It is yours for the asking. Just send your name and address.

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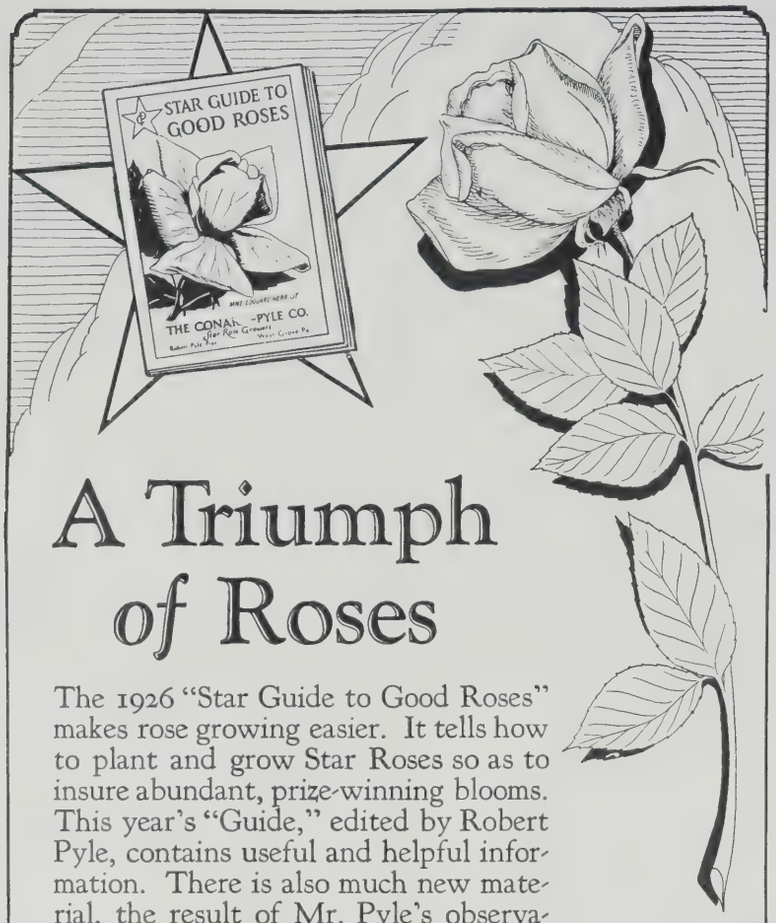

A Triumph of Roses

The 1926 "Star Guide to Good Roses" makes rose growing easier. It tells how to plant and grow Star Roses so as to insure abundant, prize-winning blooms. This year's "Guide," edited by Robert Pyle, contains useful and helpful information. There is also much new material, the result of Mr. Pyle's observations at the European rose shows of 1925.

The 1926 "Star Guide" has 100 interesting pages, showing 18 roses in their natural colors. It realistically tells just what you can have in your own garden *this* year!

The "Guide" tells which roses are most suitable for the North, the Middle and the Southern states. It faithfully describes our famous "Star Dozen," roses that are *guaranteed* to grow and bloom bountifully *this* summer and fall in *any* suitable sunny garden spot, and *anywhere* in the United States.

The "Star Guide" for 1926 is ready. It describes over 200 varieties of up-to-date roses for you to select from, and tells about our Star rose service, so helpful to rose lovers. *Write today!*

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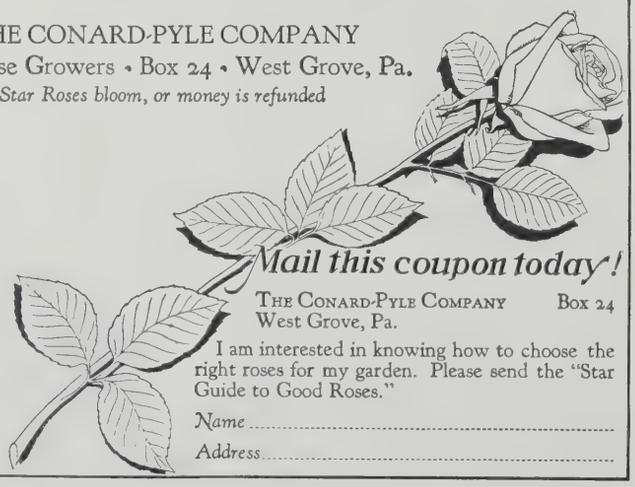

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THE CONARD-PYLE COMPANY Box 24
West Grove, Pa.

I am interested in knowing how to choose the right roses for my garden. Please send the "Star Guide to Good Roses."

Name .....

Address .....

(*Continued from page 70*)

Memorial Rose (Rosa wichuraiana) makes a wonderful showing. So will some of the climbing Roses like Tausendschoen. The trouble with them, however, is they do not cast a sufficiently dense shade on the ground to prevent weed growth, so "spires of weeds" appear in an otherwise beautiful patch of green foliage.

For seventeen years I have been watching a planting of Cytisus scoparius in a deep cut in a hill through which the Pennsylvania Railroad passes at Gap, Pa. There used to be a big plantation of it but it has gradually dwindled to comparatively few plants, and I noticed, when passing the day before Christmas, that a few of these remaining were black in death. Just west of this plantation is a small patch of it that is thriving. They look as if they had escaped cultivation. My old edition of the Cyclopedia of Horticulture says of C. scoparia "hardy from Nova Scotia southward, landscape architects recommend it for raw and rough ground." I wonder if the reason for its failure is that the railroad cut is too hot and dry in summer, for the little escaped colony on level ground had beautiful bright green stems. When in bloom the myriads of bright yellow flowers make it a glorious thing to gaze upon.

Of all the plants I have seen used as bank covers Lonicera Halliana seems to be the best. It is low growing when it does not have something to climb upon and is so dense weeds do not grow up through it. It is evergreen, too, and some of the plants have foliage that turns to a beautiful coppery bronze color when cold weather comes. There is lots of this along the Pennsylvania railroad; it needs no care once established except perhaps to eradicate it at times!

BLACKBERRIES—Not nearly enough gardens grow blackberries. It is a delicious fruit and following raspberries it lengthens the small fruit season. The plants are big, thorny and rangy but trained to trellis or stakes they will present a neat, trim appearance. Farmers Bulletin Number 1399, U. S. Department of Agriculture, gives full directions for growing and lists the best varieties, telling where each thrives.

GRAPES—Where winter protection is necessary for the production of grapes a system of training must be adopted which will permit of the vines being laid down with little or no injury to them. Prof. W. T. Macoun of the Dominion Experimental Farms at Ottawa, Canada, after trying several systems finds the fan system gives the best results, both as to wintering and size of crops. This method has a very short stump or trunk and five main canes. This same system works on the vinifera varieties worked on hardy American stocks.

STARKING APPLE—Last summer there was a great celebration at Mullica Hill, New Jersey, at the naming of the Starking Apple. Starking is a bud sport of Delicious, carrying all the good qualities of the parent and in addition it is much redder, a much-desired quality for it permits of the fruits being picked a little earlier. The nursery firm purchasing this bud sport of Delicious have fenced it off to prevent stealing of budwood. At the recent meeting of the Peninsular Horticultural Society at Easton, Md., Dr. U. P. Hedrick, Horticulturist of the N. Y. Agricultural Experiment Station, told how several of these bud sports had been submitted to him from various parts of the country. It looks as if the owners of Starking would have to acquire a number of trees and build considerable fencing to be the only disseminators of the red Delicious.

PEACHES are a precarious crop and the farther north one goes the greater the danger because of the winter killing of the buds. In a recent bulletin of the New Hampshire Experimental Station, the Carman is particularly recommended for its hardiness, it having proved the hardiest in bud, bearing full crops despite severe winters. Foster compares very favorably but is a little later in season. Both are white peaches; white peaches do not sell well because people have been trained to buy yellow peaches, Elberta being the standard. For the home garden, however, white freestone peaches are by far the best to grow. For canning they far surpass any yellow peach with the possible exception of Lemon Free. Lemon Free is a pale lemon yellow peach that is very fuzzy but it is extremely hardy in bud. I have seen full crops in western Pennsylvania on Lemon Free trees when all the other peach trees in that particular orchard were bare, the buds having been winter killed.

BROWN PATCH ON LAWNS—Brown patch is fairly common in lawns and golf greens. There seems to be a great difference of susceptibility in grasses to the disease which is caused by a fungus attacking the above-ground parts of the grass. Kentucky Bluegrass and our arch enemy of lawns, Crab-grass, are practically immune, while Red Fescue and the Bents are very susceptible. The disease is more evident during hot, damp weather. Bordeaux both in liquid form and dusts have been used successfully but they may not be used too often due to the danger of the grass plants being injured by the copper, to which they are very sensitive. According to Mr. P. E. Tilford in the Monthly

(*Continued on page 76*)

"BABY PHLOX"

I CALL these Hardy Perennial Phlox plants "Baby Phlox" to distinguish them from the older field grown clumps, though they are husky youngsters two to three months old. Given reasonable care, every plant will develop a big head of flowers this summer, although the plants will not reach their normal height.

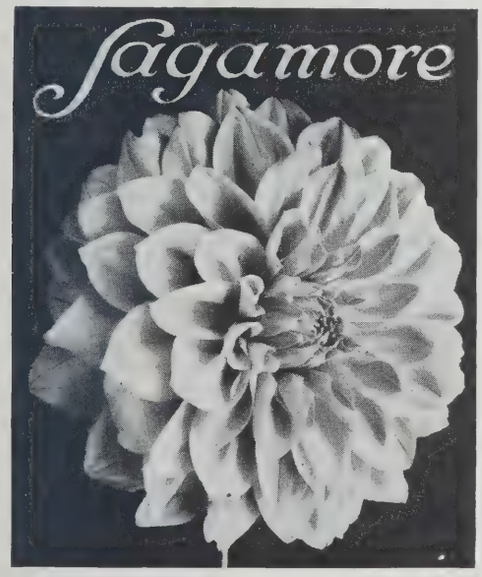
Any of the following varieties will be sent you Parcel Post or Express prepaid, assorted as you wish and each kind plainly labeled at $1.50 per dozen, $10.00 per 100. Satisfaction guaranteed or your money back.

Bridesmaid, white, crimson eye.
Europea, large white, carmine eye.
Miss Lingard, early white, delicate lavender eye.
Mrs. Jenkins, good tall white.
F. G. von Lassburg, very large pure white.
Elizabeth Campbell, light salmon-pink.
Rheinlander, soft pink, deeper eye.
Rosalind, light carmine flowers, sweet scented.
Rynstrom, carmine-rose.
R. P. Struthers, bright rose-carmine, red eye.
Siebold, orange-scarlet, crimson center.
Eclarieur, rosy magenta
Von Hochberg, brilliant amaranth-red.
Widar, lavender flowers, dark eye.

Special Offer:- I am propagating an extra lot of the following and will send 2 each of the 7 kinds, 14 plants in all for $1.50 postpaid; *Bridesmaid, Mrs. Jenkins, Miss Lingard, R. P. Struthers, Siebold, Widar, von Hochberg*, each kind labeled.

"Hardy Plants for the Home Garden" is the title of my attractive little catalog of Hardy Perennials. Gladly sent free on request.

W. A. TOOLE
Garry-nee-Dule
Baraboo **Wisconsin**



A GREAT DAHLIA LIVES ON

Sagamore has established a new standard of excellence for the present day dahlia.

If it is only a hill or two of **Sagamore** in your garden, it will be the center of attraction and a source of satisfaction and joy to you.

You can depend upon **Sagamore** to make a healthy growth, to produce large blooms throughout the season and to be second to none as a prize winner.

It is in a class by itself as a cut flower and commands the highest prices in New York.

Tubers $7.50 Plants $3.75

You can save 20% on these wonderful collections.

No. 1—One tuber each of Sagamore, Miss New York, Merveilleux and Roseata and one plant of Nathan Hale for only $38.00.

No. 2—One tuber each of Sagamore, Miss New York, Merveilleux and Roseata for $30.00.

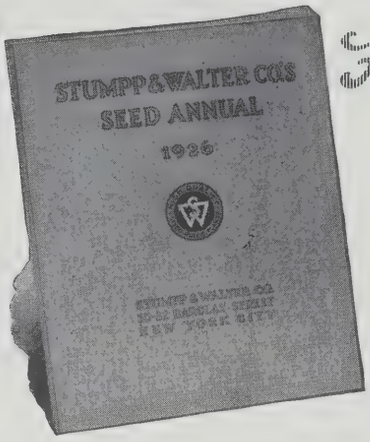
No. 3—One tuber each of Miss New York and Roseata and two plants of Sagamore for $22.00.

Our beautifully illustrated catalogue featuring our 1926 introduction the great bronze decorative Nathan Hale and others, will be sent upon request.

BADETTY BROTHERS Huntington, N. Y.

Stumpp & Walter Co's

SEED ANNUAL



Seed Catalog

SEEDS BULBS PLANTS

OUR 1926 Seed Annual—180 pages and cover, including twenty pages of colored illustrations, featuring the *finest strains* of Flower and Vegetable Seeds, Grass Seeds, the newest and best in Dahlias, Gladiolus and Roses—a veritable Horticultural Department store. Our strains and varieties of Seeds are grown under special supervision in Europe and America.

That our Seeds, Bulbs, Plants and Horticultural Supplies have given satisfaction is attested by the fact that from a small beginning nearly 30 years ago our business has steadily grown, until today we occupy one of the largest Seed Stores and Warehouses in New York City.

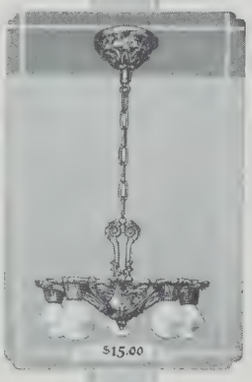
Write today for a copy—free, if you will please mention this publication.

Stumpp & Walter Co

30-32 Barclay St. **New York City**

Farm and Testing Gardens—Farmingdale, L. I.

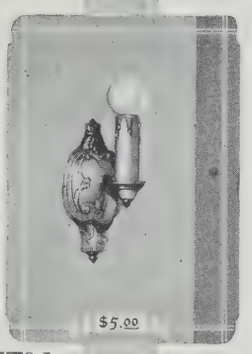
THESE cast aluminum fitments, by Markel, possess that rare quality of wide adaptability. In your home they will harmonize with almost any decorative scheme. Their classic designs, perfect proportions, and enduring color harmony give you lighting fitments of lasting beauty and unquestioned good taste at moderate cost.



The new Gentorian finish featured in these fitments will instantly claim your admiration. It is a symphony of color in old gold and mottled silver with high lights of deep greens and reds. ¶ The Markel dealer near you will gladly demonstrate their beauty and unusual value. Priced less bulbs

And note especially the Markel Two-4-One bracket at the left. Without incurring the expense of base receptacles, this fitment easily provides an extra electric outlet for the bed-chamber, kitchen, or bath. Finished in plain Ivory or White Enamel.

Beautifully illustrated literature on request.



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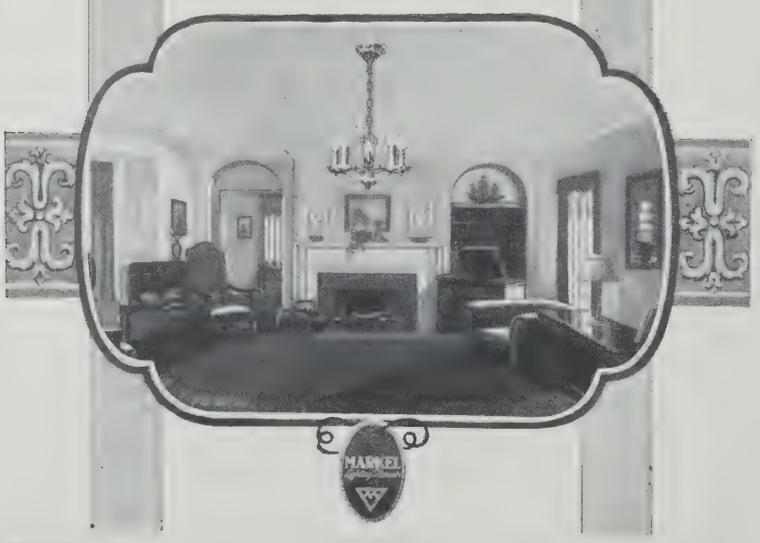
MARKEL
LIGHTING & FITMENTS



(*Continued from page 74*)

Bulletin of the Ohio Experiment Station (December, 1925) excellent results have been obtained from the use of Uspulun or Semesan, 1 to 300 and 1 to 400 applied with a sprinkling can, one gallon to two square yards.

CATALPA BUNGEI, the mop-head like tree so common in suburbia, has but one serious enemy south of the Mason-Dixon line, the catalpa mealy bug. Mr. W. S. Hough of the Virginia Experiment Station has found this pest may be easily controlled if the débris that collects at the base of the branches where the eggs winter over is removed and the tree sprayed while dormant with one of several insecticides: concentrated lime-sulphur wash, 1 to 7, with or without Black Leaf 40 gives very satisfactory control. So will Keresol 1 to 15; fishoil soap, 2 lbs. dissolved in three gallons of water; and Sunoco Spray Oil 1 to 20. Take your choice of the handiest one to use.

CALIFORNIA PINES—The well-known superintendent of Golden Gate Park, San Francisco, has been much worried by Pinus radiata and P. torreyana shedding their leaves every winter. Observation failed to show the presence of any fungous disease that would cause this defoliation. Persistent work, however, rewarded Mr. Eric Walther with the finding at the base of needles within the leaf sheath a very small mite—a relative of the red spider—about $\frac{1}{100}$ inch long. The insect has not yet been definitely identified but it is apparently a European species which in its native country attacks Pinus laricis, P. sylvestris, and P. cembra. Experimental work with various miscible oils showed that the mite could be fairly well controlled by spraying. One miscible oil (Calox) of 20 per cent. strength gave a 95 per cent. kill without injuring the foliage. So far this mite is known to exist only on the Pacific coast.

RASPBERRY CANES DRY—The wilting and dying of Raspberry canes without any apparent cause is exasperating. Examine the canes and see if they have been tunnelled at or near the ground. If channels appear in the wood evidently the blackberry crown borer did the damage. Until recently the only remedy for this pest has been digging out and destroying infested plants.

At the annual meeting of the New Jersey Horticultural Society, Atlantic City, last December, Dr. T. J. Headlee, N. J. State Entomologist, demonstrated a new method of controlling the pest. A flat mound about two inches high is made about the Raspberry bush, the edges higher than the center. A quarter pound of tobacco dust is put in, wet with water, and then covered with more soil. Just whether the cost will be too great for commercial use Doctor Headlee had not worked out at that time, but it is a cheap and effective method for the amateur.

GIANT RHODODENDRON—A giant specimen of our giant Rhododendron, R. ponticum, grows in the Culzean Castle gardens, Ayrshire, England. It measures 110 yards in circumference (a diameter of about 105 feet) covering about 1000 square yards and is about 20 feet high. It is probably more than 100 years old. Its great spread is due to the fact that in its early history some gardener started to increase his stock of R. ponticum by layering, but never removed the layers. And here lies a hint for the practical!—P. T. B.

ADAPTING NORTHERN SCHEDULES

GARDENING ACTIVITIES FOR THE FAR SOUTH

MANY of the suggestions given for March in more northern latitudes will also be practical for the lower tier of states at this time, but the majority of hints given are just about two months too late. Spring is well advanced by the time March comes to this region, and instead of making hotbeds and planting the earliest seeds, we are enjoying the blossoms of Pansies, Calendulas, Larkspur, Alyssum, English Daisies, and a host of other hardy annuals, and it is too late for "dormant spraying" and pruning, since every shrub and tree has put forth leaves, and many are in full bloom by this time.

However, it is a busy month. In place of sowing the first hardy annuals, it is time to begin to sow the tenderest ones—those that need heat to develop, such as Balsams (Impatiens), Zinnias, Amaranthus, Torenia, Dahlia, Cosmos, Portulaca, and Sunflower.

Chrysanthemum cuttings may be taken now, or plants divided for fall blooming.

Most of the transplanting of shrubs and trees should have been done before this month opens. However, fruit trees may be set out the early part of the month, and even later if the season is somewhat

(*Continued on page 78*)

Kunderd Gladioli for those who want the best

ONLY tested and proved gladioli are sold by Kunderd. Constant care during the growing season assures the purchaser of Kunderd Gladioli that his purchase will be the true varieties, strong and prolific bloomers. A large portion of the world's finest gladioli are Kunderd originations—among them the ruffled and the laciniated varieties.

Write for the new Gladiolus Book—free

and read the descriptions of these exquisite varieties. Beautifully illustrated in natural colors. The book also describes my new "Wonder Mixture" and contains complete cultural directions from my personal notes and observation. It provides interesting garden lore for many pleasant evenings.

Bulb prices are greatly reduced this year.

A. E. KUNDERD

13 Lincoln Way West, Goshen, Ind., U. S. A.

The Originator of the Ruffled and the Laciniated Gladioli

Kunderd Gladioli

Stand Supreme

The Newer Shades in Roses

Such as Coral, Old Gold, Saffron Yellow, Terra Cotta and Oriental Red are obtained by planting Pernetiana Roses, and these roses are *only a success* when budded upon Rosamine Stock. This distinction is quite noticeable in the rose Los Angeles which proves a failure when budded upon any other stock.

We submit, therefore, that this discrimination is a *great advance* and a *most important* factor in producing the popular colors so much in demand at the present day, and up to the present has not been appreciated by the rose growing public. Our Hybrid Tea and Perpetual Rose are budded upon Multiflora and Manetti Stock.

Hardness of wood is essential, as soft wooded roses die back badly when set out. Our plants have well ripened wood. Nowhere can you buy stronger plants.

May we Send You Our Catalogue?

It is different, as we do not pass along the description of the Hybridists as the roses grow in Europe but as they grow in our Nursery, always stating defects as well as merits.

ROBERT EVANS HUGHES

ROSE SPECIALIST

Near Buffalo **Williamsville, N. Y.**

The Greatest Dahlia in the World

ELITE GLORY

Originated by W. W. Kennedy & Sons

Growers of "Dahlias Elite"

ELITE GLORY was originated in 1923 and ever since first exhibiting it in 1924 it has created a sensation. It is the most spectacular Dahlia to date. It is generally regarded as a "break" among Dahlias, due to its giant size on long perfect stems and its peculiar but perfect habits of growth. The color is a radiant bright red and its effect of brilliance has not been surpassed by any other flower.

Elite Glory's Prize Record

In 1924:—

Scored 92—exhibition at Am. Dah. Soc. Trial Grounds, Storrs, Conn. Recommended for Gold Medal.

Scored 91—exhibition at N. J. Dah. Soc. Trial Grounds at New Brunswick.

First Prize for Largest Bloom in Show at New Jersey State Show, Trenton.

First Prize for Largest Bloom in Show at Monmouth County Hort. Show at Red Bank.

Received Special Cert. of Merit at Caldwell, N. J.; Special Cert. of Merit at Red Bank, N. J.; Special Cert. of Merit at New York (A. D. S. Show) for Best Undisseminated Seedling.

In 1925:—

Elite Glory was shown only twice in competition in 1925. At the New Jersey State Show at Newark it won Sweepstakes Medal for Best Dahlia of New Jersey Origin and at Monmouth County Hort. Show it received Sweepstakes Prize and Special Award of Merit for Best Bloom in Show.

Prices of Elite Glory

Tubers, $25.00 each, delivery April. 1st Plants, $10.00, delivery May or June.

Herald Tribune Elite

Winner of Garden & Home Builder Sweepstakes, New York, 1925

This rich white decorative is a thrifty grower with heavy dark green foliage. Herald-Tribune Elite scored 86 at New Jersey Trial Grounds last year. Tubers $10.00 each. Plants $5.00 each.

Send for Our 1926 Catalogue

It will describe our other introductions. It lists over 200 varieties which we have tried and found worth while in every way.

Special Offer to Garden & Home Builder Readers

6 Prize Winners for $12.00, Postpaid in U. S.

This offer is not in our 1926 Catalogue, so please mention that you saw it in this issue.

	Tubers		Tubers
Champagne—Dec. A massive flower on upright, stiff stems, Coloring is rare—a dull golden varying to chamois	$3.00	**Francis Lobdell**—Hy. Cac, Mallow pink shading to white in center, heavy flower held erect on perfectly stiff stems.	$2.50
Mr. Crowley—Dec. The exquisite color of this dahlia is most remarkable, being the brightest, most glowing shade of salmon pink, the base of the petals is yellow.	2.00	**La Grosse Bete**—Dec. A large flowered dark cerise with extra stout stems. Excellent exhibition type as well as for cutting.	2.00
Jersey's Beauty—Dec. The finest pink dahlia in existence, a real rose pink of excellent conformation and borne on a wonderful stem.	2.50	**Susan G. Tevis**—Dec. Recommended for all purposes. This recent introduction is a rich lilac which deepens at the perfect center. The blooms are held upright on long, stout stems.	3.50

Special Plant Offer—1 plant of each of these 6 great dahlias, $6.00 postpaid.

W. W. Kennedy & Sons, Red Bank, N. J.

ROSES

By Bobbink & Atkins

Captain Thomas' Hardy Everblooming Shrubbery Roses, now offered for the first time, are described and illustrated in this remarkable catalog.

Here also are *Star of Persia*, an astonishing Rose of the Pillar class, with definitely, actually yellow flowers; *Rev. F. Page-Roberts*, the great, glorious golden Hybrid Tea illumed with burnished bronze and copper; with others of the newest and best. "Roses, by Bobbink & Atkins" also offer rare Roses of olden days, Hardy Climbing Roses in infinite variety; unique species and shrub roses not easily obtained elsewhere; all described with a fidelity to fact which makes it possible to select Roses wisely for any purpose.

To those who intend to plant Roses, we will gladly mail a copy upon request.

Old-Fashioned Flowers—New Varieties

Hardy Chrysanthemums, Japanese Iris, Delphiniums, Trollius, Astilbes, Anchusas, Anemones, Heucheras, Hemerocallis, Phlox in many varieties, Hardy Asters, Marshmallows, Veronicas, Violets, Rock Garden Plants and many others will be described in our new Hardy Herbaceous Plant catalog ready to mail the latter part of February.

Evergreens, Shrubs and Vines

An illustrated catalog of Evergreen Trees, Shade and Ornamental Trees, Broad-leaved Evergreens including Rhododendrons, Azaleas, Cotoneaster, Holly, Flowering Shrubs, Hedge Plants and Hardy Vines. Most of the new introductions, together with the varieties that have become familiar to all, will be found in this edition.

In your request for catalog it is important to state definitely what you intend to plant.

Bobbink & Atkins

Visit Nursery

World's Choicest Nursery & Greenhouse Products Grown In America

Ask for Catalog

Rutherford New Jersey

Nurserymen and Florists

(*Continued from page 76*)

retarded. Evergreens may be set out for a month after it becomes unwise to move deciduous trees and shrubs.

In the vegetable garden, sow Beets, Radishes, early Cabbage, Kohlrabi, all types of Lettuce, Spinach, Mustard, Carrots, Swiss Chard, Leeks, Celery for cutting, Parsley, Roquette, Cress, and Chervil. Toward the end of the month Endive may be sown.

All varieties of Bush and Pole Beans may be planted; but Lima Beans should not be put in until the end of the month, as they rot easily if the ground is too wet or not warm enough. This is also true of Okra.

Early varieties of Peas may still be planted, and it is not too soon for Squash, Cucumbers, and Melons. Plant Sweet Corn. Set out Tomatoes, Eggplants, and Peppers in the open ground and sow seeds for a later crop. Set out Onion sets, Chives, and Shallots. Plant Sweet and Irish Potatoes, and Jerusalem Artichokes, which do marvellously well in this climate.

This is the time, too, if it has not been done before, to plant the curious fruit of the Mirliton, a kind of Squash which must be planted whole, with the small end of its pear-shaped fruit just showing above the surface of the ground, and covered with a light mulch of leaves. It grows into a tall vine of luxuriant growth, and bears its delicate-flavored fruit, pale green in color even when ripe, late in the fall. They should be gathered before frost, when they will keep for months. They are cooked like Squash, and are particularly delicious stuffed with shrimp or other richly flavored meat. ETHEL HUTSON.

IN THE CALIFORNIA GARDEN

CONSERVATION of moisture should begin now. After the heavy rains, cultivate the soil, keeping the surface loose and soft, so that it will act as a blanket to keep the moisture underground. Weeds must be watched and not allowed to grow up, as they rob the soil of moisture as well as food.

March is a favorable month for sowing new lawns, as the soil is sufficiently warm for germination of the seed, and also is full of moisture. Cover all new lawns with straw or old dry manure to prevent packing of the ground from rain or sprinkler. Old lawns may be renovated and bald spots patched up by raking gently, sowing new seed and covering lightly with old manure or bone meal. In obstinate cases the top soil may be removed and replaced with fresh pieces of new turf.

If the early spring planting was not all done in February it may be completed in this month, particularly in the case of Roses and deciduous trees and shrubs. Acacias and Eucalyptus trees may be set out when frost danger is past, and, in the case of the Acacia trees, it is well to set out several different species blooming at different seasons.

Deciduous shrubs that bloom in summer such as Poinsettias, Fuchsias and Hydrangeas may be pruned at this time. Poinsettias are sensitive to frost and cold and thrive best from Santa Barbara southward, where they bloom in the open air near the coast, requiring protection in the more northern part of California. The Hortensis type of Hydrangea is the best adapted to California and may be grown in the open ground in partial shade or planted in tubs; they thrive best in the moist air of the coast regions. The pink blossoms are said to be produced where the soil is alkaline or neutral, and the blue ones where the soil is more acid. Iron slate or alum are all recommended by various gardeners for producing blue Hydrangeas, and as they all have the effect of rendering the soil acid, they may be valuable from that cause.

The half-hardy annuals may be sown now and Sweet-peas for midsummer blooming. Also summer-blooming perennials may be divided and replanted now, including Phlox, Pentstemons, Columbines, Campanulas, and Japanese Anemones. Start tuberous Begonias in pots or boxes in a shady place; divide and replant Cannas, putting them in rich soil and irrigating thoroughly and continuously. Where water is scarce and the atmosphere dry, they may be planted in sunken tubs or boxes, perforated enough to allow slow drainage and to insure constant moisture.

All bulbs which have bloomed in the house during the winter may either be planted out in the garden or the pots sunk in the ground until the foliage ripens and turns yellow, thus allowing the bulb to recover from the winter's work and store up food for next year.

Carnations which have made good roots may be set out and cuttings made for later blooming. ELIZABETH URQUHART.

Hitchings Sunshine Shops

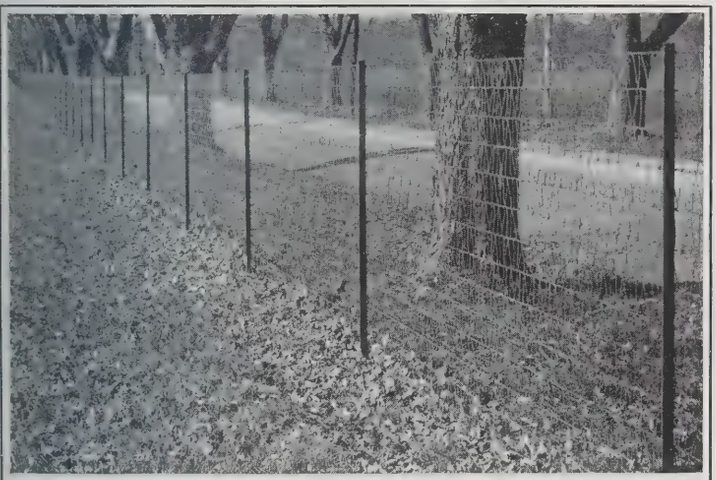
"Why, Uncle Jack, imagine your having melons and calendulas in March.
What a delightful extravagance!"
"Delightful, yes, Dotty, but not guilty on the second count. When Phil Scott designed this place he insisted on a greenhouse. You see, he knew the secret of fruits and flowers the year around and I figure it didn't cost me anything as I bought it out of my income, in 12 monthly payments.
Clever fellow, that architect, Scott."

Send for Counsel or Catalogue showing successful installations to meet many conditions

Hitchings and Company

General Offices and Factory, Elizabeth, N. J.

New York 101 Park Avenue
Oak Lane, Philadelphia 6700 N. Broad St.
Wilkes Barre P. O. Box 218
Boston 161 Massachusetts Ave.
Albany, N. Y. P. O. Box 921



THIS PICTURE WAS TAKEN FIFTEEN (15) YEARS AFTER THE FENCE WAS BUILT. WE ERECTED THIS FENCE IN 1910. PICTURE WAS TAKEN IN 1925.

THIS fence (part of THIRTY-SIX THOUSAND (36,000) linear feet) shown in the above photograph has been standing at the BORDEN HOME FARM, WALLKILL, N. Y. for FIFTEEN (15) years; under the most severe weather conditions.

At one time the entire length of this fence was coated with ice, and at another time the fence was completely covered with wet leaves while the wind was blowing eighty (80) miles an hour.

Not a single wire has rusted, broken or decayed in all these years.

This fence was guaranteed for TWENTY (20) years, and will last THIRTY (30) years or longer.

Fences will last that have lasted. Why not purchase the very best fence; purchase the best fence that money will buy.

Use your good judgment in placing your fence order, and secure the best fence material manufactured.

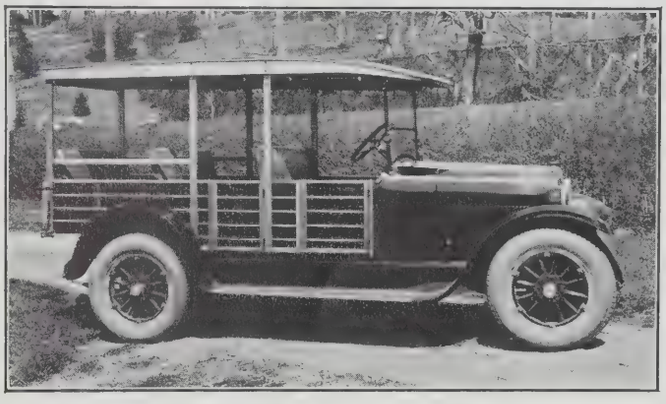
We want to get in touch with the man who is spending his own money protecting his property.

We fence against all species of prowlers; man, beast or reptile.

Write for Catalog No. 40, describing our Straight and Non-Climbable Fences, and method of construction developed from TWENTY-FIVE (25) years of practical experience in the field.

FENCES BUILT; ANY KIND; ANYWHERE

J. H. DOWNS, 9 Howard Place, Jersey City, N. J.



Cantrell Suburban Body on Dodge Brothers Chassis

IN the Cantrell Suburban there are embodied a number of exclusive, patented features which add much to its comfort and utility, as well as to its unfailingly smart appearance. Mounted on a light chassis, the Cantrell makes an ideal car for country estate or suburban home.

We shall be pleased to send you upon request our folder "H" giving details and specifications

J·T·CANTRELL & COMPANY
Makers of Suburban Bodies
HUNTINGTON, N.Y.

New Smartness for your Floors

Thirty Minutes a Month—*and the Ponsell* will keep any floor in your home as spotless and bright as your dining room table

Regardless of the floor—hardwood, parquet, tile, linoleum, cork or cement—the use of the Ponsell will keep it *new!* Walk on it—track dirt across it—dance on it—let grease spatter it—5 minutes and the Ponsell renews it.

And then think of the delight, the pride of Ponsell-appearing floors. With the Ponsell in her home, no woman need make excuses to her friends or to herself. Thousands of Ponsell users confirm this. They have done away with the back-breaking, hand methods of the past.

These thousands of users know the pride of beautiful floors.

Moderately priced. Operated by electricity. Consumes less than 3c worth of current an hour. No skill or strength required.

1. *Keeping my floors beautifully polished is now a pleasure—just guiding my Ponsell gently along. Gone is the backache of hand-polishing.*

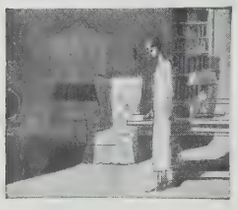
2. *My Ponsell is equally good on my large stretches of bare floor or on the narrow borders between my rugs.*

3. *"Will it go into corners and up to the baseboard?" Certainly it will. There, I polished that corner, not a dull spot left.*

4. *And now I can polish around and under my furniture without having to move it. My Ponsell reaches narrow awkward places without any trouble. Hasn't it all become easy!*

5. *Scrubbing my kitchen floor is just as easy. I simply attach the scrubbing brush and watch my floor turn snow-white. "Better than a sloppy-mop?" It surely is!*

6. *Now a few strokes of the "squegee", (which came with my Ponsell), dry up my floor in a jiffy. Oh!—by the way, —last Fall my Ponsell saved me a lot of money.*

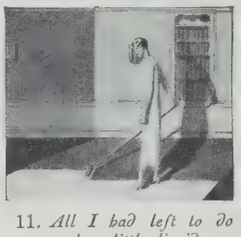


7. *With it, I had no trouble at all in bringing back to its original beauty, my stained, scratched dining room floor.*

8. *All I had to do was first to spread Varnish remover on —I let it dry for six or seven minutes and then —*

9. *I attached the steel wire brush armed with a pad of steel wool and went over the prepared portion of the floor.*

10. *Off came the old dirty finish, leaving the wood as fresh as new. I then attached the sandpapering pad and smoothed and brought out the grain.*



11. *All I had left to do was apply a little liquid wax with the Ponsell waxing brush and —*

12. *With the Polishing brush I brought the wax to a high lustre and behold! My floor is spotless and gleaming for all to see.*

MAIL THE COUPON—And we will promptly mail you full information, prices, and list of sales offices where you can secure a *free demonstration* in your own home—or a *ten day free trial* if you are located too far from any branch office.

PONSELL

ELECTRIC FLOOR MACHINE

Scrubs, Polishes, Refinishes For You

PONSELL FLOOR MACHINE CO., 220-230 W. 19th Street, New York City.
Please mail free illustrated folder and full information and prices about your electric machine for scrubbing, refinishing, and polishing floors of all kinds.

*Name*_____

*Address*_____

G. & H. B. 3-26

(*Continued from page 45*)

PADRE. (B. R. Cant, 1920.) An extra fine grower and as beautiful a bush as one could desire; semi-double blooms, with long, coppery-scarlet petals, flushed yellow at the base; attracts attention among any number of fancy colored roses. The color is attractive at any time, but is especially beautiful in the early blooming period. Hardly any Rose in my garden stood out more distinctly. From the descriptions of Padre in two leading catalogs I find the following: "long, stout, upright canes hold flowers erect," and, "the beautiful, long buds are borne on long, stiff stems and are splendid for cutting." While both descriptions are true, both are misleading, for unless this Rose is very well grown it has a weak neck. This means a drooping bloom, despite a fairly stiff cane, unless the best of cultivation is given. The petalage is twenty-three, and, like many of the beautiful light petalage Roses, with only a fair substance of petal, it must be cut in the "just opening" bud stage or it will not last. Few, if any, Roses in my garden gave more blooms. All in all, Padre ought to be in every Rose garden.

MABEL MORSE. (McGredy, 1923.) Of the six varieties grown in this trial, Mabel Morse is clearly the winner. That is a strong statement, and I decided to verify my trial of this Rose by information from Mr. Cecil G. Ottey, a leading grower of Seattle. And here is the joint decision in 1924: Blooms long and pointed, of perfect form, and the color a pure, golden yellow, without shading. Not a single divided nor crinkled boom, which are the grave defects of both Golden Emblem and Souv. de Claudius Pernet. Fragrance somewhat like Maréchal Niel An extra free and continuous bloomer. The foliage seems immune to disease and, especially the young growth, is a beautiful bronze-green in color, with a form of bush that is well-nigh perfect; making it almost worth growing for the foliage alone. It is a good grower, one year old budded stock throwing out from three to six canes thirty inches and more in length. Unless Mabel Morse is only superior as a maiden, and does not hold up as a cut-back, it is the peer of any of the new yellow Roses. Indeed, if it does not take first place among the most recent yellow Roses we will be surprised.

But in 1925 the Rose did not do so well with me, as to growth. Mr. Jesse A. Currey, of Portland, Oregon, and Mr. Frank C. Riggs, President of the Portland Rose Festival for 1926, both told me that in 1925 Mabel Morse was a weak grower with them. Others had good results. But I again wrote Mr. Ottey and his answer follows: "Mabel Morse is not the tall growing type, like Golden Emblem, but is very generous with blooms, and at the time of writing (October 18) I have quite a few nice looking blooms. Plants transplanted last spring are now three feet high, after having had budwood cut from them in August. Mabel Morse is, to my mind, still the queen of yellow Roses."

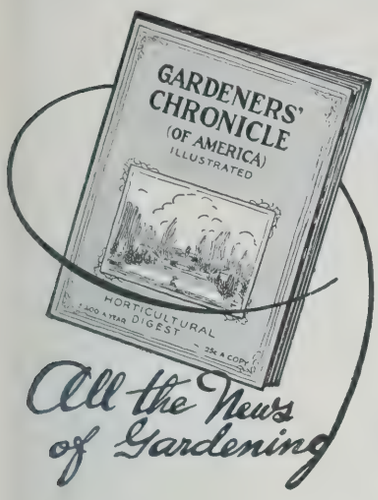
Raising Plants From Seeds

A real test of gardening is raising plants from seed. One gardener will get 200 plants, another 10, and another none at all from exactly similar packets of the same seed. The best gardener gets the biggest crop of seedlings. The secret is protection until the plants are large enough and strong enough to shift for themselves.

The greatest loss comes from the very fine seeds and their greatest enemy is water. Not one gardener in ten, if that many, has a coldframe or hotbed although every gardener ought, at least, to have a coldframe. He must sow his seed, for the most part, in the open ground. A heavy rain often will wash away a whole bed of tiny seedlings.

A protection is needed and a very practical one is a common wire window screen. Placed over the seed bed, it does not exclude light but it breaks the force of a driving rain which might wash the seedlings out of existence. This is an old-fashioned dodge but a valuable one. A glazed sash would be better, but it would require care in watering. With the screen, the spring rains may be trusted to do that.

Sow together seed that germinates at the same time, and that of slower germination, in particular, by itself. Cover the seed bed of the slow ones with burlap to retain moisture and protect from rains. Remove the cover a day or two before the seed is scheduled to come up. It is best not to use a burlap or other cover on seed that comes up within a week such as Pinks for a day or so of forgetfulness when the seedlings were coming through would ruin the crop. SHERMAN R. DUFFY



All the News of Gardening

"A delight to read"

"THIS is the most interesting magazine on flora I have found; it is a delight to read," writes a California flower lover on the margin of her subscription blank.

"Fills our every want"

writes a practical Canadian florist. So whether you are an amateur or professional grower of plants, you will enjoy the Gardeners' Chronicle.

This magazine is the official organ of the National Association of Gardeners. Various branches contribute articles of vital importance to all gardeners. A question Department helps to solve your personal gardening problems. "The Voice of the Readers" gives you a chance to express your individual views.

7 Fine Numbers for $1 If You Order at Once

While the supply lasts, we'll include the February number free with a six months' trial subscription to the Gardeners' Chronicle, making seven numbers for $1. Order today.

Advertisers are invited to write for Rate Card and Sample Copy

GARDENERS' CHRONICLE
286 A Fifth Ave. NEW YORK
"The ONLY All Gardening Magazine"

To Grace Your Lawn

Of course you want to enhance the beauty of your Lawn and here are the ornamental shrubs to do it with:—

Purple-leaved Plum—Magnificently contrasting foliage of dark crimson, turning purple as it matures.

Double Flowering Almond—of bushy character, with lovely double white and rose colored flowers during early summer.

Bechtel's Double Flowering Crab—Very early in the spring, with the earliest flowers, blooms this charming, fragrant form of dwarf tree, a small specimen of which is shown above.

Special Offer:—One each of above 3 splendid flowering trees for ***$4.50***

Lilacs for Hedges

Every Lilac bush is an asset to the home grounds but a hedge of them is a real tribute to the owner's choice taste. Here are six sorts especially selected to please discriminating home owners.

De Mirabel—Single bluish violet; of exquisite fragrance

Chas. Joly—Deep wine red; shading to purple. Extra fine double.

Pasteur—A deep black red

Mad. Abel Chatenay—Sweetly scented double white.

Roi Albert—Purple buds, mauve flowers in great panicles

Pres. Loubet—Large, double purple

Special Offer:—One each of above 6 sorts for ***$10.00***
One plant of any sort ***$2.00*** each. ***$20.00*** per 12

Trees That Yield Valuable Food

Nuts are recognized as one of nature's most concentrated foods and among them, Walnuts are esteemed as a great delicacy. We propagate an extra hardy strain that has stood zero temperature successfully. And the trees, we offer are the offspring of parents of proved bearing qualities. Equally valuable as a highly decorative shade tree, the English Walnut trees readily enhance the beauty and value of the ground they occupy. 2-3 feet, $1.25 each; 3-4 feet, $1.50 each; 4-5 feet, $2.00 each; 5-6 feet, $3.50 each; 6-8 feet, $5.00 each.

Complete Catalog FREE

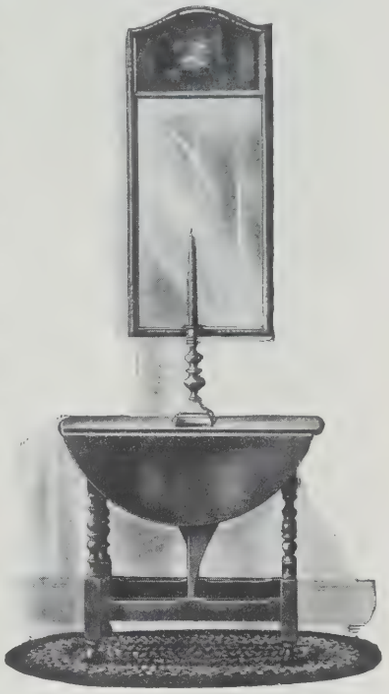
In a "Glenwood" Nursery product you can be reasonably sure that you get the choicest of its kind. Whether you need Hardy Perennials, Fruits or Ornamental shrubs or trees or Evergreens—we have it, in specimens you'll be proud to call your own as they take root and develop. Please let our Free catalog acquaint you with the complete "Glenwood" line of nursery stock.

Glen Bros., Inc., Rochester, N.Y.

Glenwood Nursery *Established 1866*

COLONIAL Butterfly Table

Painted or Stained Any Color You Wish



A *Beautiful* REPRODUCTION

TYPICAL of Leavens' offerings, this graceful Colonial Butterfly Table may be secured in any color you wish—either painted or stained. It is a beautiful, authentic reproduction, including not only the turning of the legs but the wooden pegs, beveled edges and the graceful butterfly wing supports. Made of solid birch and maple and finished in the color which best harmonizes with its surroundings, this Butterfly Table will add to the attractiveness of any room in your home.

Special Price $18.00

The most popular stains of course are maple, walnut and mahogany. In painted tables, Jade Green, Chinese Red, Antique Mulberry and Rubbed Black Enamel have been selected by many to add a lively color note to their interiors. In ordering specify color or enclose sample to be matched.

"Finished to your Order" Furniture

Never were the various small pieces that complete the attractive furnishing of a room, such as End Tables, Nest-of-Tables, Hanging Book Shelves, Gate-Leg Tables and the like, more popular than now. These pieces, as well as the main furnishings for your home, are procurable from Leavens on the "Finished to your Order" plan, painted or stained any color. Send the coupon for our new illustrated catalog which fully describes the original, inexpensive "finished to order" service.

LEAVENS *Furniture*

WILLIAM LEAVENS & COMPANY. Inc.
32 Canal Street, Boston, Mass. (Dept. G-3)

Please send your illustrated Catalog and complete details of the "Finished to Order" Plan.

Name _____

Address _____

Will the happy little Song Birds Find in Your Garden

DODSON' HOUSES scientifically made just the way they like them, or will they pass on to your neighbors.

Do you know the joy of waiting for the return of your own particular family of Purple Martins? Have you seen and heard the Songbirds singing or working in your garden hunting the cut worms, bugs, moths and other insects which devastate your choice trees, shrubs and flowers? Your thoughtful provision of the kinds of homes they like, water to bathe in and some simple foods they crave, will bring multitudes of these beautiful birds to your garden.

DODSON scientifically designed and artistic bird houses are a feature in the most beautiful estates, country clubs and parks all over America.

No. 1. Queen Anne Martin House
48 rooms for the beautiful Martins who colonize and eliminate mosquitoes. Scientific porch, pure white, green trim. Cypress, copper roof, *including 22 ft. easy raising pole.* House 36x 26x37 in. Price **$60.00** others as low as **$18.00**

No. 2. Flicker House
lures the Flickers. They keep your trees free of destroying moths, ants and other tree pests. 26½ in. high by 12 in. only **$7.00**

No. 3. Bluebird House
The happiest and most beloved Songsters. Our scientific houses satisfy these most exacting birds. Made of oak, finished in green. Sizes 21 in. high by 16 in. in diameter *with 18 ft. easy raising pole,* price **$14.00**

No. 4. Hanging Blue Bird House
Very ornamental and successful house. Lack of projection fortifies it against sparrows. 16 in. by 21 in. high, including rust-proof hanger, ready to put up, **$7.00**

Dodson's Scientific Wren House
Four compartments, same exterior design 21x18 in. oak body with projections like No. 3, gets the beautiful Silver throated Wrens **$7.00**

Bird Bath
Birds must have water or they eat fruits. This handsome stoneware bath with especially designed shallow edges complete with 32 in. stand. **Only $26.00**

Write for our big catalog of art stoneware furniture

Free

My fascinating book "Your Bird Friends and How to Win Them" sent to anyone who loves our beautiful Songbirds. It is full of things you should know. Based on 40 years' study of this most interesting subject.

Ask about Dodson's Guaranteed Sparrow Trap.

A Song Bird Lover
for over 40 Years
ACTUAL PHOTO OF
Joseph H. Dodson (The Bird House Man)
PRESIDENT OF THE AMERICAN AUDUBON ASSOCIATION
Making friends with a Black Capped Chickadee at his Kankakee Bird Sanctuary

Easy Raising Pole
Makes cleaning or inspection easy.

No. 5. Automatic Feeding Shelter
Stocked with a few simple foods they crave and Dodson's Suet Cake and Grain Mixture, lures Songsters from the whole neighborhood. Automatically revolves to protect birds from storms. Cypress, finished in green. Sizes 24x22x12 in including 8 ft. pole **$8.50**

Dodson's Suet Cake 40c. a pound. Grain Mixture 10c. a pound.

Order direct from this ad DODSON Scientifically Designed Houses can only be bought from

JOSEPH H. DODSON, Inc.
President of the American Audubon Association
746 Harrison Avenue Kankakee, Ill.

(Continued from page 34)

beneath the sink, using a broad low window type, that does not interfere with plumbing pipes.

There should be an abundance of cupboards or cabinets in the kitchen, with much free space at the countershelf as this space is of great convenience when there are all the dishes for a meal to be handled immediately after the meal. The cupboards may be of either wood or metal. The latter are becoming very popular notwithstanding this higher cost.

Every kitchen requires free space for a table, either at the wall, the usual location in small kitchens, or in the center of a larger kitchen.

A broom closet should be provided for storage of brooms, mops and such, and this may be located where the plan arrangement of the other units will permit, near the service entrance, or near the door to dining room are good locations.

Most of the modern kitchens in the small house have a Dining Alcove and for the kitchen the "Pullman" type with built-in seats and table is compact and attractive. It should be set in an alcove with a window at the end. If a small separate breakfast room is to be provided, movable furniture is very suitable.

A built-in ironing board is usually provided in the kitchen, as it is both compact and very useful. The cost is very small.

The type of range to select depends upon various factors such as the fuel available, cost of operation, personal preference, etc.

In the country where gas is not available, a coal range, supplemented by an oil stove is often used, or a combination coal and electric range is good if low cost electric current is available. In the suburbs and cities gas ranges are the general rule, although electric ranges are very popular, and are very clean and attractive.

The matter of decorating and furnishing the kitchen is of importance. Sanitation should be the watchword. The use of wood is to be avoided where possible, metal, glass and tile are the ideal materials. All piping and fittings should be concealed insofar as practical.

The equipment should be simple in design, free from dirt-catching corners and the floor should be kept as free from obstructions as possible—sink, table and other legs make cleaning more difficult.

The floor of the kitchen should meet the requirements of being sanitary, easy to clean, attractive in appearance, and above all, it should be comfortable to work on. Hard unyielding materials offer fatigue to those who walk or stand on them for considerable periods while on the other hand, softer yielding materials do not have the full antiseptic qualities of the other.

Composition floors of rubber, or cork are easy to the tread and give a good appearance, they are also sanitary and not difficult to clean. They may be used with a tile base.

A very satisfactory floor is that in which the field is rubber or cork and the border of tile to match the base. This makes a very sanitary corner at junction of wall and floor and at the same time gives a comfortable floor for the working space.

For the walls, tile is best, either as a wainscot or extending to the ceiling. All trim should be flush with the wall where possible and all cabinets, etc., should extend to the ceiling. This avoids dust catching.

The walls above the wainscot, in case the tile does not extend to ceiling, should be hard plaster, painted and enameled.

There is a tendency in many of the modern kitchens to "fussiness" in the matter of decorations. A kitchen is a workroom in which food is prepared and for this reason the scheme of decoration should be that of simplicity, suggestive of cleanliness. White and light tints are best and for hangings, simple washable materials that may be kept clean and fresh are far superior to dark colors and fussy hangings.

The electric equipment of the kitchen should be complete. Ample convenience outlets should be provided on every side, usually not over eight feet apart, they should be placed high above the floor.

An electric light should be provided over the sink, one over the range and as a rule a center outlet is provided in the ceiling for general illumination. This center outlet to be controlled by switches located at service entrances and at entrance from dining room.

The ideal kitchen is a cheerful workshop where cleanliness and efficiency reign, a place where work becomes less irksome and more of a pleasure, and in this the American kitchen leads the world.

Delphinium

Special Offer—

12 Healthy Full-O-Pep Plants for $1.38

Regular Catalog Price $2.39

This fine assortment of Delphinium includes:

4 Belladonna—a clear turquoise blue, blooming continually from the last of June until frost.

4 Bellamosum—dark blue flowers similar to Belladonna, but a darker blue.

4 Gold Medal Hybrid—assorted colors. A hearty, vigorous flower, nearly two feet tall and large blue petals with shading of pink, lavender and flesh.

Jim Young has grown Delphiniums for twenty-five years and there is nothing finer grown in America. The plants you will receive were grown in seed beds, then transferred to the open field in 1925. These have well-balanced roots and stems. They have grown for us and they will grow for you. The colors run true to name. The plants will be shipped at proper planting time.

Our production of Delphinium Plants alone is 100,000 yearly. The Plants are worth the price listed in the Catalog, but to acquaint you with Jim Young's old-fashioned flowers we offer to the readers of this magazine these special 12 Delphinium Plants. You will have blooms this summer.

You must have Jim Young's new illustrated catalog, featuring choice shrubs, plants and garden seeds. It is free upon request. His Full-O-Pep seeds and plants are thrifty growers. They have pleased thousands of people.

Our Guarantee —

If you are not satisfied send back the Plants and we refund your money cheerfully. Jim Young's name and reputation is known to flower lovers everywhere. He has spent his lifetime growing flowers and plants. Send for his catalog to-day, it's free.

Young's Aurora Nurseries, Inc.
Jim Young, President
Dept. GH-3, Aurora, Illinois.

Double Hollyhock, "Colorado Sunset"

Color salmon-apricot, but varies to copper; sometimes lighter, but always delightful. Blooms second year from seed.

"Colorado Sunset" Seed:—Pkt. 15c.; ¼ oz. 50c.; 1 oz. $1.50.

"Colorado Sunset" Roots:—Bloom this season. 5 for $1.00; 11 for $2.00; 24 for $4.00, prepaid.

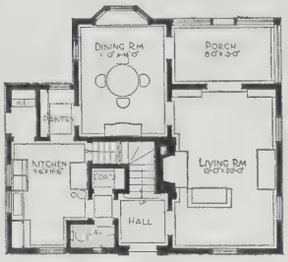
Other Double Hollyhocks:—White, Pink, Red, Maroon, Yellow. ***Roots:*** Any 3 for 50c.; 7 for $1.00; 15 for $2.00, prepaid. ***Seed:*** Pkt. 10c.; ¼ oz. 40c.; 1 oz. $1.20.

"Garden Secrets" 19,000 words of helpful garden talks, combined with Long's spring catalogue. *All free upon request.*

J. D. LONG SEED CO. **12th St., Boulder, Colorado**

The Second of a Series of Selected Designs from a National Architectural Competition

C. W. Cleary and J. N. Holden, *Architects*



FIRST FLOOR

SECOND FLOOR

An Attractive Six-Room House – Economical to Build

Complete Working Plans $15.00

HERE is an exceptionally fine modern adaptation of the New England Colonial style—dignified and beautiful on the exterior, roomy, convenient and livable on the inside.

Its straightforward lines make it an economical house to build, and place it well within the means of the average home-builder.

Note particularly the ample size of the rooms on both first and second floors, and the splendid arrangement of the rooms, which makes all the parts of the house easily accessible from every other part.

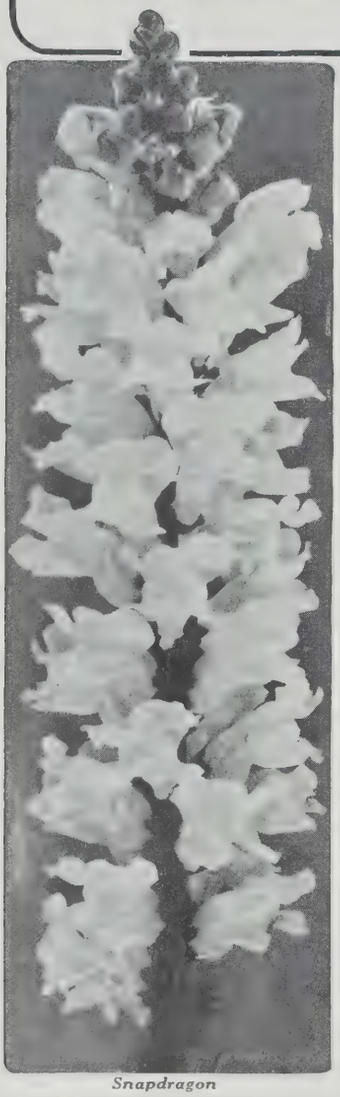
As the largest lumber manufacturers in the country Weyerhaeuser Forest Products has been searching for years for just such houses as this to assist prospective home owners in getting full value for their money.

If you like this house send $15.00 for a complete set of working drawings from which you can take bids and build this home just as shown.

Or, if you would like to look over the 12 houses in this series, a portfolio of illustrations will be mailed postpaid on receipt of 25 cents.

WEYERHAEUSER FOREST PRODUCTS
811 *Merchants Nat. Bk. Bldg.* · Saint Paul, Minn.

MICHELL'S "Long Season" Collection of Annuals for Cutting



Snapdragon

A CAREFULLY selected group of those popular annuals which provide greatest color variety in cut flowers from early summer till frost comes.

Improved Giant Mixed **Snapdragons**
Bloom freely July till frost. See illustration.

Michell's Improved Semple's Branching **Asters**
Mixed.

Calendulas **Orange King**
Rich deep orange variety.
Large double flowers in continuous profusion.

Giant White **Candytuft**
Many immense spikes of large flowers on each plant.

Mixed Marguerite **Carnations**
Finest of annual pinks; large, fragrant flowers borne continuously.

Double Blue **Corn Flower**
An old favorite long season annual, very popular for cutting.

Early Blooming Mixed **Cosmos**
Large flowers from July till frost.

Single Mixed **Gaillardia**
Finest development of the favorite Blanket Flower. Blooms early summer till frost.

Baby's Breath **Large Flowering**
Delicate sprays of pure white flowers improve any bouquet.

Tall Double Stock Flowered **Larkspur**
Slender spikes of double rosette flowers, all colors, amid fern-like foliage. July on.

Giant Flowering **Nasturtium**
Unsurpassed for brilliancy of color, and large size of flowers, on tall or dwarf plants.

Scabiosa **Grandiflora Mixed**
Bears freely throughout summer and autumn large double flowers, excellent for cutting.

Strawflower **Most popular everlasting. Mixed**
Cut in summer, last all winter.

Giant Flowering Spencer Mixed **Sweet Peas**
Exquisite in color and shades; long stems.

Giant Flowering Mixed **Zinnias**
Every shade of color found in Zinnias. Largest blooms.

Any of the above at per packet 10c

Special Offer to Garden and Home Builder Readers who mention this advertisement. 1 packet each, total value $1.50 for. . . **$1.00**

Michell's Green Velvet Lawn Grass Seed

will withstand heavy wear and outlive severest winters retaining lustrous green beauty at all times. By parcel post anywhere in the U. S., 30c pt.; 55c qt.; $1.00 for 2 qts.; $1.70 for 4 qts.; $3.00 per peck; $11.00 per bushel.

Full directions for making a lawn included. A specialized Grass Seed for every need shown in

MICHELL'S 1926 CATALOG FREE ON REQUEST

HENRY F. MICHELL CO.
520 Market St., Philadelphia, Pa.

(Continued from page 32)

Eugene Lefebre	Lemoine	Pink
Jean Du Tailles	Lemoine	Pink
Casa Blanca	Lemoine	White
Mme. Monet Sulley	Lemoine	White
General Langlois	Lemoine	Cherry Rose
Beverly	Kunderd	Violet-Rose
Dr. Nelson Shook	Kunderd	Tyrian Rose
Ed. Springer	Kunderd	Rose-Pink
Enchantress	Kunderd	Shrimp Pink Pr-Gr
Gene Stratton Porter	Kunderd	Pink
Millionaire	Kunderd	Crimson
J. Ogden Armour	Kunderd	Coral-Salmon
Purple Queen	Kunderd	Violet-Purple
Tiger	Kunderd	Variegated
Virginia Lou	Kunderd	Old Rose Pr-Gr
Barbara La Marr	Diener	Geranium Pink
Colleen Moore	Diener	Shrimp Pink
Emile Ashe	Diener	Snow White
Enrico Caruso	Diener	Rhodamine Purple
H. G. Wells	Diener	Bordeaux Purple
Hope Hampton	Diener	Strawberry Pink
Isolene	Diener	Hermosa Pink
Lillian Gish	Diener	Snow White
Mme. Schumann Heinck	Diener	Mauvette
Nixe	Diener	Jasper Pink
Pauline Fredericks	Diener	Pinkish Lilac
Priscilla Dean	Diener	Rose Doree
Radio	Diener	Rhodonite Pink
Storm King	Diener	Blue
Wotan	Diener	Eosine Pink
Miracle	John C. Berg	Pink
Grace	Frazier	Scarlet Lake
Alexander Edward	Errey	Crimson-Scarlet
Cerinthe	Errey	Salmon-Pink
Chancellor	Errey	Crimson
Comptesse Exelmans	Errey	Salmon-Rose
Emile Aubrun	Errey	Salmon-Orange
Ensign	Errey	Crimson-Scarlet
Gertrude Errey	Errey	Large Pink
Hermes	Errey	Rosy Cerise
Iremel	Errey	Bright-Crimson
Jean Tenny	Errey	Silvery Rose
King Pearl	Errey	White
La Comete	Errey	Lilac
Lavinia	Errey	Light Pink
Mrs. T. Rattray	Errey	Bright Rose
Renown	Errey	Cream
Rouget De Lisle	Errey	Reddish Orange
Sentinel	Errey	Salmon-Pink
Titan	Errey	Salmon-Pink
Victor	Errey	Scarlet

Roses

By the American Rose Society
Sec., Robert Pyle, West Grove, Pa.

QUEEN ROSE has added a few names to the records of the year. Varieties here are not so easily made as among annuals and a great deal of preliminary trial and elimination is undergone by the raisers themselves—very, very few new things standing the rigid tests to which they are subjected. A Rose to come through to recognition must have unusual attributes not only of floral quality but it is also measured by exacting standards of plant quality and adaptation.

Tillicum (Miss Rena E. Wilber, Seattle, Wash.) H. T. Deep rose pink, shaded orange.
Climbing Betty (H. J. Hohman, Kingsville, Md.) Cl. H. T. Coppery rose, shaded yellow.
Senator (Wm. A. Geiger, Florex Gardens, North Wales, Pa.) H. T. Brilliant scarlet.
Louisa Schultheis (Anton Schultheis, College Point, N. Y.) H. T. Salmon pink, center darker, outside petals lighter.
I. X. L. (D. W. Coolidge, Pasadena, Calif.). (A stock alone.) An ugly magenta.
Pink Lafayette (J. Bruce Griffin, Fox Chase, Pa.) Double Poly. Clear Rose Pink.
Sarah Van Fleet (Dr. Walter Van Fleet, dec'd) Hybrid Rugosa. Wild Rose Pink.
Matchless (Duckham Pierson Co., Madison, N. J.) H. T. Brilliant cerise.
Henry Ford (Harry Deverman, Clifton, N. J.) H. T. Yellow, slightly edged salmon orange.
Lord Calvert (John Cook, Baltimore, Md.) H. T. Rich dark red.
Pearl of Baltimore (John Cook, Baltimore, Md.) H. T. Delicate shell pink.
Dr. E. M. Mills (Dr. Walter Van Fleet, dec'd) Spec. Hyb.— Color: Primrose color with a pink suggestion.

Carnations

By the American Carnation Society
Sec., O. E. Steinkamp, Indianapolis, Ind.

THE Carnation is essentially a florist's flower but it is probably the most popular of all the greenhouse products and the one with which, other than the Rose, the greater number of people have to do. Varieties of Carnations are apparently very ephemeral. They come and go with rapidity. Always the standard is a little bit better and improvement though gradual is marked. Think of what the Carnation was twenty-five years ago!

Betty Lou, a light rose pink similar to Mrs. C. W. Ward. Reports from all sides are uniformly good and the variety has a great future from every standpoint. It is a good keeper, does not split, holds the color in bright weather and can be grown to extra large size, on long stiff stems.
Cheerful is a deeper shade of pink bordering on cerise. Being much earlier and freer than Rosalia, will fit into its place.
Spectrum is a scarlet that is a fast grower, making good plants in the field and easy to propagate. Made a splendid showing last Christmas. The blooms are large and keep well.
Gypsy is a red variety grown extensively near Chicago where it originated. It is a very free flowering variety and has a good color. A careful selection of cuttings will enable the grower to bring out its good points.
Johnson's Crimson is a very good commercial sort, grows on long stiff stems, fragrant, does not split the calyx and the color is good. It is the best crimson available and if it had a little more size would fill all requirements.
Royal, a true purple as the name implies is a fast grower, a good sized bloom and a distinct novelty. Combining this carnation with either orange, yellow or gold, gives it a wonderful color effect. This variety is being disseminated this season by Wm. Sims.

Peonies of Promise

VERY slowly do new varieties come to public favor which is a concommitant of the nature of the plant itself—slow to develop and increase. Registrations of new varieties with the American Peony Society, W. F. Christman, Minneapolis, Minn., during 1925, are few indeed.

Alaska (Auten) Salmon with light flashings. Fragrant. Typical Anemone.
Fantasy (Auten) Deep pink, yellow center with tufted petals, among Anemone type.
Humoresque (Auten) Light pink with red markings. Late.
Melody (Auten) Pale pink lending to lavender; center petals pale yellow, short. Fragrant. Anemone type.
Mischief (Auten) Late, single, appleblossom pink. Shows Japanese parentage.
Presto (Auten) Medium red single.
Rose Valley (Scott) Yellow center surrounded by pink cupped shape collar.

HEAT SAVING PROVED

55% Difference in Heating Costs in Two Neighboring Houses of almost exactly the same size, in Portland, Ore., due to *insulation* with

Cabot's Insulating "Quilt"

RESIDENCE OF J. H. HARTOG

RESIDENCE OF DR. W. B. HOLDEN
F. MANSON WHITE, ARCHITECT

House Cost 55% more to Heat than ➔ **This House.**
House was Lined with building paper.
House Cost to Heat, October to May inclusive.....$138.10
Average cost per month..... 17.26

This House was Insulated with Cabot's Quilt
This House Cost to Heat, October to May inclusive.....$88.72
Average cost per month..... 11.08

(Official figures of Portland Gas & Coke Co.)

The Heating Equipment was *exactly* the Same in Both Houses

The Hartog house should cost less to heat because its roof area is so much smaller. This and many other similar actual cases prove that Cabot's Quilt pays for itself over and over again in saving fuel, and it makes your house always comfortable—warmer in Winter, cooler in Summer—as long as it stands.

You can't afford not to know about Cabot's Quilt. Send for sample and full information. Free.

Samuel Cabot
Incorporated

4 Oliver Street Boston, Mass.

342 Madison Avenue, New York
5000 Bloomingdale Avenue, Chicago
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Agents all over the Country

Cabot's Creosote Stains, Waterproof Collopakes, Old Virginia White, Double-White, etc.

Wohlert's *flowering* Trees

A E WOHLERT
The GARDEN NURSERIES Narberth Pa.

Chinese Flowering Crab
Japanese Roseflowering Cherry, etcetera

America's Finest Collection

EARLY in the spring these Oriental trees burst into glorious bloom; a riot of delicate color converts lawns, groups of shrubbery and gardens into veritable Paradises. Order these Oriental Flowering Crabs from America's Finest Collection.

50 Assortment [Trees 4 to 5 feet high]

Crab Sargenti, dwarf, white, red fruit . . $5.00
Crab Baccata, single, white, fragrant . . . 4.00
Crab Floribunda, sgl. pink, early 3.50
Crab Arnoldiania, semi-dbl. pink 3.50
Crab Atrosanguinea, single red 5.00
Crab Bechtels, dbl. pink, fragrant 6.00
Crab Niedswetzkyana, purple fl. & fol. . . 4.00
Crab Spectabilis, double pink 5.00
. Cherry, Weeping, single pink 6.00
. Rosefl. Cherry, Kofugen, dbl. red . . 6.00
. Rosefl. Cherry, Naden, dbl. pink . . 6.00
al for March, 50.00 $54.00

$25 Assortment [Trees 2 to 3 feet high]

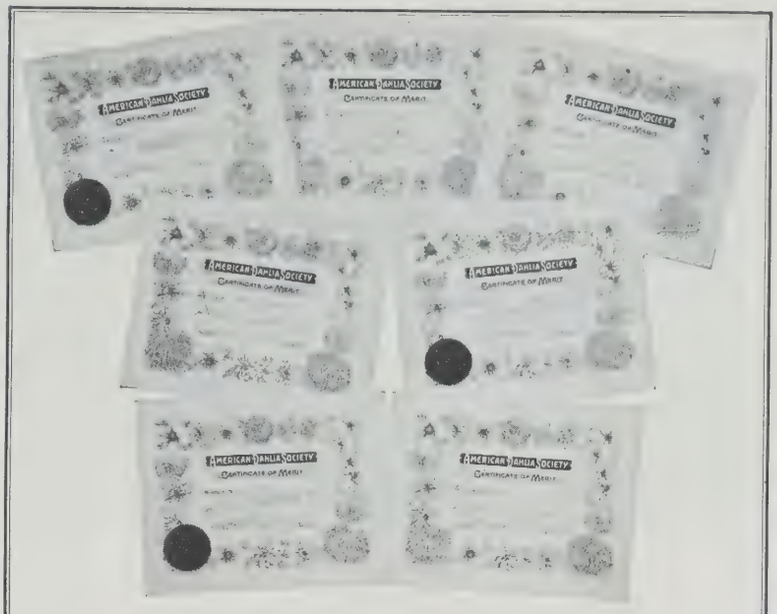
1 Crab Floribunda Purpurea, purple . . . $1.75
1 Crab Atrosanguinea Ming Shing, sgl. red, 2.00
1 Crab Arnoldiana, semi-dbl. pink 2.25
1 Crab Baccata, sgl. white, fragrant 2.00
1 Crab Bechteli, dbl. pink, fragrant 4.00
1 Crab Scheideckeri, dbl. pink 2.00
1 Crab Sargenti, dwf. white, red fruit . . . 3.00
1 Crab Floribunda, sgl. pink, early 2.00
1 Japanese Weeping Cherry, sgl. pink . . . 4 00
$25.00
Same asst. as above, trees 3 to 4 ft. high, $34.75

$15 Assortment [Trees 2 to 3 feet high]

1 Crab Niedswetzkyana, prpl. fol. and fls. $2.00
1 Crab Atrosanguinea Ming Shing, sgl. red 2.00
1 Crab Parkmani, semi-double, pink, dwf. 3.00
1 Crab Prunifolia Rinki, Chinese Apple . . 1.50
1 Crab Scheideckeri, dbl. pink 2.00
1 Crab Eleyi, purple to red—new 2.50
1 Crab Ioensis, sgl. pink, fragrant 2.00
$15.00
Same asst. as above, trees 3 to 4 ft. high, $21.50

rees may be ordered singly or in any combinations at above prices.
If larger trees are wanted, send for catalog of every variety of Oriental flowering trees obtainable in America.

A. E. WOHLERT • *"The Garden Nurseries"*
224 Montgomery Avenue, Narberth, Montgomery Co., Penna.



Waite's Certified Dahlias

Originated by William H. Waite

THESE Certified Dahlias have made good, especially Jersey's Beauty. By Certified we mean that all of our introductions have been awarded Certificates of Merit by the American Dahlia Society. Under the severest test these varieties have scored 85 points or over—a guarantee of satisfactory growth.

Green Plants

It has been repeatedly demonstrated that properly grown young plants are equal to, if not better than plants grown from tubers.

We know how to grow and how to pack Green Plants, so that they will reach you in good condition. We guarantee our plants. This means that your money will be refunded if you're not satisfied.

Two Plant Offers

1—NEW INTRODUCTIONS

	Each
JERSEY'S CAPRICE, Dec., Autumn shade	$5.00
JERSEY'S DELIGHT, Hy. Cac., Old Rose	5.00
JERSEY'S EMPRESS, Dec., Anthracene Violet	5.00
JERSEY'S IDEAL, Dec., Lavender Pink	5.00
JERSEY'S SUPREME, Dec., Laelia pink	5.00
JERSEY'S BEACON. Dec., Chinese scarlet	5.00

The set of six, one plant of each, for $25.00 prepaid

2—EARLIER INTRODUCTIONS

	Each
JERSEY'S BEAUTY, Dec., Finest Eosine Pink	$1.50
JERSEY'S EMPEROR, Dec., Dark Maroon	1.25
JERSEY'S GEM, Dec., Lavender-Pink	2.50
JERSEY'S MAMMOTH, Hy. Cac., Golden Mahogany	5.00
JERSEY'S MONARCH, Dec., Salmon Pink	2.50
JERSEY'S RADIANT, Hy. Cac., Bittersweet Orange	2.50
JERSEY'S SOVEREIGN, Dec., Orange	2.50
E. D. ADAMS, Dec., Golden Bronze	2.50
FRANCIS LOBDELL, Hy. Cac., Pink and White	1.25

The set of nine, one of each, for $17.00 prepaid

The complete set of certified Dahlias one plant of each, will be delivered prepaid for $40.00. 4% may be deducted when cash accompanies order.

Send for our 1926 Catalogue and full descriptions of Waite's Certified Dahlias

WAITE'S GARDENS
EATONTOWN NEW JERSEY

Iris, Always!

BESIDE the pool or stream, in shady spots, in dry, hot places where other things won't grow, the fairy grace of Irises spreads enchantment on the most prosaic scene.

No gaudy, boisterous, weedy flower is this, but one whose uttermost delicacy, frail as an orchid, iridescent as the rainbow, makes a deep appeal to friends of flowers who sense the glamour of chaste beauty.

The same patient care and rigid selection which has made Farr's Iris known the country over is applied also to the production of

Farr's Hardy Perennials

in only the best varieties, grown properly, and shipped in healthy, *transplantable* condition.

BETTER PLANTS—by Farr

1926 Edition

is a catalogue of Iris and Perennials for discriminating gardeners. Send for a copy that you may test the quality of Farr Better Plants this year.

Farr Nursery Company

104 Garfield Ave. Wyomissing, Penna.

(*Continued from page 36*)

protection, for a week or two. Then bring into the cellar and place in the bottom of a barrel for use around Thanksgiving.

Store Squash and Onions before frost touches them. Handle the Hubbard type with particular care.

Clean up in general! Cut off Asparagus tops and burn them. Dig or plow, and let the soil lay "in the rough."

NOVEMBER

AND NEW OPPORTUNITIES

Arrange protection for the late Cosmos, Dahlias, Chrysanthemums, etc.

Dig Canna bulbs, Gladiolus corms and other summer flowering stock as soon as a frost kills their tops.

Plant all kinds of deciduous material, so long as it is dormant. Keep right on planting bulbs.

To avoid winter wind damage to Grape vines and fruit bushes, prune back long canes now.

Clean and put in order all tools before you put them away for the winter. A coat of grease on metal parts will pay.

Gradually start the heat indoors and accustom the house plants to winter conditions.

Dig or plow any land that seemed badly infested with white grubs, potato beetles or other pests that winter over in the soil. Lime such land and leave it loose and rough so the frost can work on it.

DECEMBER

INDOOR DELIGHTS

Apply mulch when ground is frozen on top; lightly at first, then more heavily as needed.

Wrap favored specimen evergreens in burlap or, if small, protect them with board shelters from drying winter winds.

Do pruning and other tree surgery on bright days.

Store some plants of common perennials in a frame before the ground freezes to provide material from which to make lots of sturdy root cuttings.

Some day when the temperature is above 32 degrees, give a good dormant (oil or lime-sulphur) spray to clean up scale and other resistant pests.

Bring in from the frame where you stored them in the fall pots of bulbs for forcing, a few at a time.

Tie up any vines that need attention.

JANUARY FEBRUARY

JUST THE TIME FOR PLANNING

Look out in shoveling snow off walks and porches not to bury your borders and fancy dwarf evergreens under masses of snow.

After heavy snowfalls—and especially after ice storms—beat the load off branches of evergreens to prevent breakage.

Get the new catalogues together and begin to plan next year's garden NOW.

You can develop a splendid indoor plant box by planting ordinary Wandering Jew (Tradescantia) and, as it grows long, cutting off the shoots and sticking them in the soil to root.

Time to start Freesias, Hyacinths, Paperwhite Narcissus and such other forcing bulbs as you can get hold of, in pebbles or fibre. Keep them in a cold, somewhat dark place for from four to six weeks.

Watch out for egg masses of tent caterpillars girdling the twigs of wild Cherry trees. Cut off and burn such twigs.

Start flats (i. e. seed boxes) in the greenhouse, conservatory or even the kitchen.

Sweet-peas can be started in pots and planted out as six-inch or one-foot plants in April.

Finish pruning fruit trees.

You'll probably need stakes, trellises, plant supports and many such things next summer. Now is the time to make and paint them.

Make out the season's seed order.

For Graceful Elegance and Beauty Plant MORE Spiraeas!

GREAT is the number of good shrubs suitable for home ground ornamentation. There are a few, however, that lead all the rest in popularity—only to mention Deutzias, Hydrangeas, Lilacs, Weigelas, etc. And among these deservedly popular favorites, Spiraeas are *outstanding* leaders.

Four Spiraeas That Go Well Together

Spiraea arguta—Specimen shrub shown alongside best illustrates the gracefully arching growth and free-flowering habit. Lovely feathery foliage. Blooms in May 3 to 4 ft., each 50c; 10 for $4.50.

S. Bumalda, Anthony Waterer—One of the choicest for foreground. Large, rosy pink flowers in umbels. Throughout summer and fall. Height, about 2 feet. Splendid for dwarf hedges. 18 to 24 in., each 50c; 10 for $4.50.

S. Thunbergi—The first to bloom, with slender drooping branches. Finely cut, feathery foliage, pure white flowers. Of dwarf habit. 3 to 4 ft., each 75c; 10 for $6.00.

S. Van Houttei—Perhaps the showiest of them all. During June the branches are literally laden with dense clusters of white flowers of spicy fragrance. Also known as Bridal Wreath. 3 to 4 ft., each 50c; 10 for $4.50.

SPECIAL OFFERS: One each of above 4 superb Spiraeas, 3 to 4 ft. Shrubs, (except Anthony Waterer), well branched and rooted, for $2.25. Two of each for $4.50; five of each for $9.75.

"Suggestions for Spring of 1926" on Request. This special booklet offers a well chosen assortment of shrubs, plants, trees, as well as a number of Rock Plants and hardy perennials for the home ground. Gladly mailed free on request.

THE BAY STATE NURSERIES
W. H. WYMAN & SON, *Owners*
North Abington Mass.

MONARCHS of the Floral World
DAHLIAS OF QUALITY & DISTINCTION

Featuring
EMMA MARIE, EASTERN STAR and VINELAND

IT is not often that three Dahlias from the same nursery win such universal approval and praise wherever shown. All profuse bloomers with fine stems and formation. Truly a trio that should be seriously considered for your collection, no matter how large or small it may be.

Potash Fed Dahlia Tubers

Alive with vitality and life, as a tuber should be when well grown. Your success in growing fine blooms, either commercial or exhibition, depends to a great extent on the parent stock. Try potash fed Dahlia tubers and note the difference.

Would you take a trip through a wonderland of Dahlias and along the way learn many secrets of Dahlia culture? Then—

Write for our new catalogue

DAHLIADEL NURSERIES
Warren W. Maytrott **Box A, VINELAND, N. J.**
The Home of Good Dahlias Well Grown

Erected in just two days—with unskilled labor

MONDAY a vacant plot of ground, Wednesday a charming bungalow—that, briefly, is the story of Hodgson Portable Houses.

Hodgson Houses are built in sections and shipped to you all ready to bolt together. Three men can easily put up a Hodgson Cottage in two days' time—with unskilled labor.

In appearance Hodgson Portable Houses are outstandingly beautiful. The grace and simplicity of their lines suggest coziness and real comfort. Painted a cream-white with leaf-green trimmings, Hodgson Houses are in perfect keeping with the most picturesque settings. Hodgson Houses are remarkably sturdy and weather-proof too.

Let us send you our new catalog. It shows many actual photographs of Hodgson Houses now in use. It also gives prices and complete information about Hodgson Portable Houses, garages, summer houses, dog kennels, poultry-houses, garden furnishings, etc. It's yours for the asking. Write for catalog K to-day.

E. F. HODGSON CO.
1108 Commonwealth Ave., Boston, Mass.
6 East 39th Street, New York City
Florida Branch—Bradenton

HODGSON *Portable* HOUSES

Alexander Dahlias

One of the "hardest" jobs I have is to pick out specific Dahlias for these "ads." Growing a thousand sorts and millions of roots is easier than to determine which among these are "better" than others—and why. The selection below will please those who strive after Dahlias of surpassing size.

Six Very Large Flowering Leaders

	Each
Bonnie Brae, Peach and cream color	$1.00
Judge Marean, Red, orange and yellow	2.00
Judge Alton B. Parker, Golden buff	2.00
Mrs. C. B. Benedict, Clear, soft yellow	5.00
Snowdrift, Pure waxy white	1.00
The Emperor, Deep crimson-maroon	3.00

Special Offer:—One strong tuber of each of above six (a $14.00 value) postpaid for $12.00.

Gladioli of Surpassing Loveliness

Size of flower and stalk together with rarely beautiful shadings and colors have been the governing factors in the selection below. All enjoy the highest ratings.

	Each
Diana, Large crimson-scarlet	$0.25
Flora, Large yellow	0.20
Gretchen Zang, Rose-pink with salmon blotch	0.15
Herada, Clear Lilac-Mauve	0.15
Le Marechal Foch, Light pink, very large	0.20
Mr. Mark, Light blue, large	0.20
Mary Pickford, Sulphur yellow	0.20
Mrs. Dr. Norton, Soft La France Pink	0.20
Mrs. Frank Pendleton, Salmon-pink, dark crimson blotch	0.10
Miss Shirley Shattuck, New golden yellow, deep bronze throat	0.50
Rose Ash, Wonderful old rose	0.50
Rose Glory, Purest rose-pink, large	0.35

Special Offer:—One each of above 12 prize beauties, $2.50. Two each (24 in all) $4.50 postpaid.

Combination Dahlia and Gladiolus Offer

One each of the six Giant Dahlias and two each of the surpassing "Glads" described above, for $15.00 postpaid.

Free Catalog Gladly Mailed On Request

My catalog continues to be one of the recognized authorities on Dahlia lore. Besides giving explicit culture directions, notes on the history and development of the Dahlia, it offers the best by test in the various classes, at prices within everybody's reach. Gladly mailed free to all—when writing please mention G. & H. B.

J. K. ALEXANDER
World's Largest Dahlia Grower
27-29 Central St., East Bridgewater, Mass.

The Dahlia King

"Topepo" the New Vegetable

Mixing the Tomato and the Pepper

SOMEBODY is always fooling around doing something and some one else calls the experimenter a "nut." Does it pay? Listen to the story and maybe you, too, can become famous.

J. F. O'Keefe of Low Ranch, Cupertino, California, used to be a cemetery superintendent. His health failed due to an attack of influenza so he took to the ranch to try to "come back." Like many others he began experimenting on Tomatoes and finally succeeded in crossing the Stone Tomato with the Bell Pepper. The new fruit he called Topepo.

Topepo is green and gold, about the size of a tomato. It is so gorgeous in color that San Francisco window decorators used them recently with red crêpe paper in a diamond jubilee decoration.

The Topepo has the same bulges in outline as the Bell Pepper but the flatness of the Tomato. The side walls are thicker and firmer than those of the Tomato, are more solid and have smaller seed cavities. In flavor it resembles the Bell Pepper but milder and sweeter, and has some of the zest of the Tomato.

Both peppers and tomatoes are transient for the fruits decay soon after picking. Topepo on the other hand may be kept in an ordinary living room for a month without spoiling.

For stuffing Topepo is better than peppers for pepper walls break down in cooking but the solid walls of the Topepo stand up. Moreover, the flavor is more delicate. Topepo added to salads increases the piquancy yet does not make them hot and stingy. O'Keefe's ill health and bump of curiosity is likely to bring him some financial return and much notoriety.

There may be some argument as to the actual originator of the Topepo for I recall that Doctor de Niedman of Los Angeles was said to have originated it ten years ago using the Bell Pepper and a long yellow Tomato from South America that cost him $5.00 for seed.

P. T. B.

New Plants to Think About

EUONYMUS RADICANS COLORATA is a new variety of the common climbing Euonymus. It differs from the ordinary type in that upon the approach of winter the dark green glossy leaves turn to a beautiful bright red and bronze color which they hold until spring, when they again assume the green. The plant is perfectly hardy in New England where it was first introduced by the Arnold Arboretum.

DEUTZIA GRACILIS CARMINEA is another new introduction, a Lemoine product. The buds are dark red but open a flesh pink. It is bound to be popular when known.

BERBERIS JAMESIANA has just received an Award of Merit from the Royal Horticultural Society. This Barberry has gracefully spreading, purplish, spiny branches which carry in the fall many pendulous bunches of bright vermilion currant-like berries. They are a trifle more transparent than currants.

AMARCRINUM HOWARDI is a beautiful hybrid between Crinum Moorei and Amaryllis belladonna raised by Mr. F. Howard of Los Angeles, California. It bears immense trusses of beautiful soft pink flowers which have great lasting qualities. The flower stems are four feet long.

THE BITTER-ROOT (Lewisia rediviva) has the nine-lived cat beaten to a frazzle. Lewisia belongs to the Portulaca family, and somewhat resembles our common Portulaca but has two- to three-inch beautiful soft rose colored flowers. Its home is in sandy soil of dry prairies along rivers in the Rocky Mountain region. The plant was described by Frederick T. Pursh who planted roots which had been dried and kept in a herbarium for several years; they grew and lived for a year. This suggested the name rediviva. The beautiful colored plate in the Botanical Magazine, t.5395, was made from a plant whose root had been plunged in boiling water that it might more easily be dried for herbarium purposes.

Lewisia is a good rockery plant for eastern gardens. It requires a sunny situation, perfect soil drainage, and careful watering while in flower. Plant in groups for the best effects and also against loss by careless weeding when not in flower.

Whittall Rugs

The wonder is that Rugs so beautiful can be so durable yet not expensive

Whittall Rugs are in keeping with delightful surroundings

Look for the name "WHITTALL" woven into the back of the rug you buy

MONEY CANNOT BUY MORE BEAUTY ~ ~ nor can beauty find a more worthy fabric. The fact that Whittall Rugs are not expensive, makes them none the less desirable.

The Rug illustrated is a 9′ x 12′ Whittall Anglo Persian, priced at $150, to which your dealer may add transportation charges

Whittall Rug catalog in colors will be mailed on request

M. J WHITTALL ASSOCIATES ~ 180 Brussels St. ~ WORCESTER, MASS.

The Secret of Keeping Lawns Attractive

Taken for granted that your lawn is well established, there remains the infinitely greater task of keeping it well through cultivation. Lawn culture consists largely of cutting the grass. Judicious mowing improves the density of the turf and fortunate indeed is the gardener who, for this important job, has at his disposal

THE GENUINE

"PHILADELPHIA"

The Original The Oldest The BEST

Here is the mower without a fault—for this reason:—Made by mower specialists whose one aim continues to be to produce the highest class mower in the world, we simply *cannot* go back! We must turn out superior mowers year after year *or* our reputation, based on 56 years of *progressive* performance, would be at stake.

The Result:—Mowers made so well, of such grade of material, with such skill and conscience as to defy the most strenuous use and the element of time! Genuine "PHILADELPHIA" mowers, in constant use over a quarter century, are still better mowers than most cheap machines when they are new!

Sold by Progressive Dealers *The World Over!*

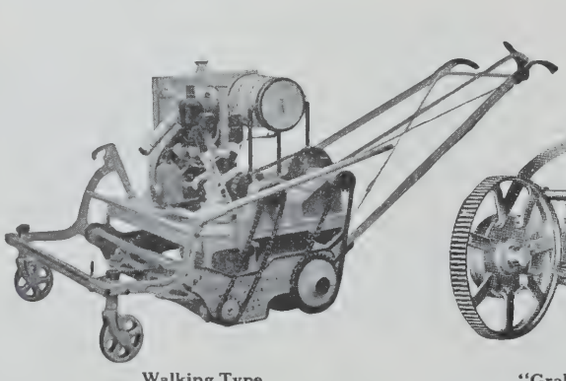
There is a lifetime of effort behind all of our 27 models. Whether your need calls for an "Eagle" *Motor Mower or* a *Horse Mower or* any of our 20 styles of *Hand Mowers*—any conscientious dealer will tell you that you cannot buy any mower approaching the Genuine "PHILADELPHIA" in standard of perfection.

Let this FREE Catalog help you choose!

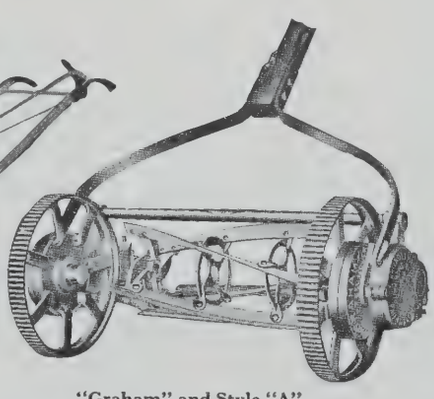
Besides a chapter on "The Care of a Lawn", it gives mighty interesting instructions how to keep your Genuine "PHILADELPHIA" mower in good order. It also gives *the guarantee* that makes Genuine "PHILADELPHIA" famous the world over:—We guarantee *all* our mowers to be free from defects in workmanship and material and should such appear will replace *free of charge* any part.

THE PHILADELPHIA LAWN MOWER CO.

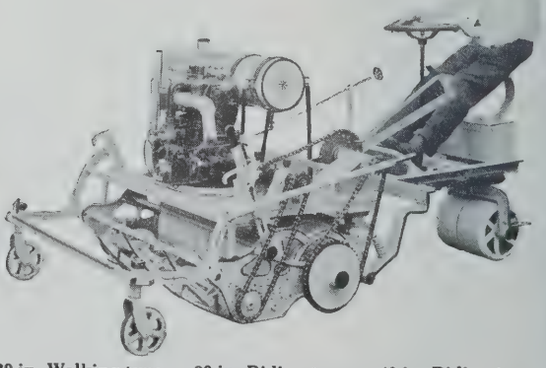
31st and Chestnut Sts. **Philadelphia, Pa., U. S. A.**



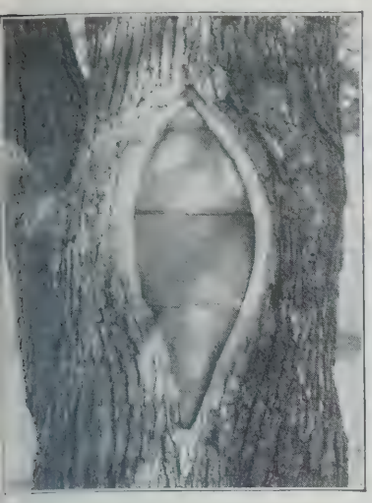
Walking Type
Motor Mower



"Graham" and Style "A"
All Steel. Practically Indestructible



30 in. Walking type 30 in. Riding type 40 in. Riding type
Combination ROLLER and LAWN MOWER



An oak on the U. S. Capitol grounds in Washington. Perfect healing of new bark over Davey cement filling

Davey Tree Surgeons live and work in your vicinity

Nearly 600 Davey Tree Surgeons are constantly at work saving the trees of more than 10,000 clients a year between Boston and Kansas City, and Canada to the Gulf. Some of them live near you and are quickly and easily available.

THE DAVEY TREE EXPERT CO., INC.
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Branch offices with telephone connections as follows: New York, Albany, Boston, Philadelphia, Baltimore, Washington, Pittsburgh, Buffalo, Cleveland, Detroit, Cincinnati, Louisville, Indianapolis, Chicago, St. Louis, Kansas City, Minneapolis, Montreal.

Attach this coupon to your letterhead and mail today

JOHN DAVEY
Father of Tree Surgery

THE DAVEY TREE EXPERT CO., Inc.
560 City Bank Bldg.
Kent, Ohio

Reg. U. S. Pat. Off.

Gentlemen: Without cost or obligation on my part, please have your local representative examine my trees and advise me as to their condition and needs.

Make Your Roses Thrive Like These This Summer

Wonderful blooms—healthy, colorful foliage, are assured by the use of these two scientific companion sprays: FUNGTROGEN—a remarkable fungicide that definitely controls mildew and black spot. INSECTROGEN, which destroys all leaf-chewing insects, including caterpillars, slug worms, Japanese Beetle, etc.

Both contain a highly important nitrogenous element—*Hortogen*—readily absorbed through the foliage, a fertilizing property contained in no other spray. The results of their use, as demonstrated at the noted Rose Gardens at Wallingford, Pa., and by official tests, are truly phenomenal.

(For aphids or plant lice, use *Aphistrogen*.
Insectrogen is for leaf-chewing insects only.)

Both Fungtrogen and Insectrogen are highly concentrated, and will make 60 times their volume.

If your seedsman cannot supply you, we will ship direct.

Fungtrogen
FUNGICIDE FERTILIZER

	Postpaid		*Postpaid*
Pints	$1.50	Half Gal.	$4.00
Quarts	2.25	Gallons	6.00

Insectrogen
TRIPLE SERVICE
FUNGICIDE · INSECTICIDE · FERTILIZER

	Postpaid		*Postpaid*
Pints	$2.00	Half Gal.	$5.00
Quarts	3.25	Gallons	8.50

Chemical Products Division

Rose Manufacturing Company

(Established 1897)

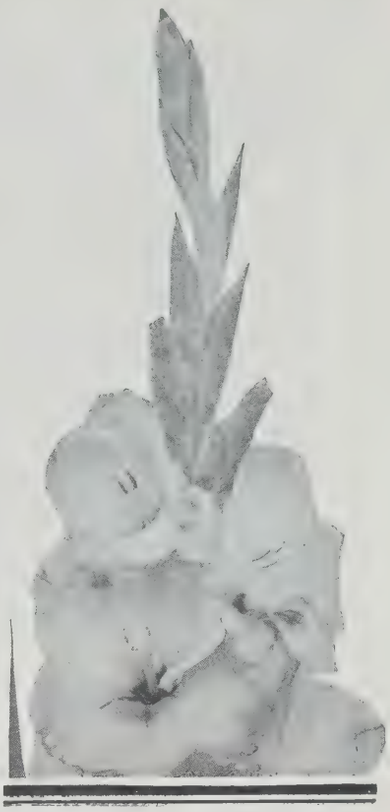
39th and Filbert Streets **Philadelphia**

A Professional Plant Food and Soil Stabilizer for Roses

Ferogen
GROUND BONE DRESSING
SOIL STABILIZER AND FERTILIZER

(Rosenbluth Formula)

Used in the Spring and throughout the Summer, it supplies those vital chemical elements the rose most craves. Stimulates to hearty and vigorous root action. In convenient powdered form. Send for circular.



Gladiolus Shortage!

From all sections of the country, leading growers are reporting "Sold out on all blooming sizes." Wholesalers are seeking stock from every possible source. Prices are being gradually but strongly raised.

Freezing weather coming suddenly during the late harvesting season in the North and the prolonged drought during the summer in the South are accountable for this crop shortage.

Elmwood Terrace Gardens were very fortunate. A favorable season and early maturity, combined with efficient harvesting methods, had resulted in placing all our bulbs in security just a matter of a few hours before the unexpected frost arrived.

We foresaw the present situation and have sold comparatively small amounts to wholesalers. Our choicest varieties have been held for our old customers and the general retail trade.

The finest and largest stock we ever have marketed—from two successive years of champions of the American Gladiolus Society Show.

We offer these specials for your quick consideration:

50 bulbs, all splendid named varieties in well-balanced color range, only	**$3.00**
100 of same mixture, only	**5.00**
25 bulbs, assorted shades of blue and lavender	**2.00**
25 bulbs, assorted shades of cream and yellow	**1.50**
25 bulbs, assorted shades of light pink	**1.50**
25 bulbs, assorted shades of darker pink	**1.50**
25 bulbs, assorted shades of scarlet and red	**1.50**

No more will be available when our surplus is exhausted. It will pay you to make your selections NOW.

Cultural directions as adopted by the American Gladiolus Society will be enclosed with every order.

Catalogue upon request.

Margaret Breard Hawks

ELMWOOD TERRACE GLADIOLUS GARDENS

Bennington, Vermont

"Consider the Lilies"

Four pages in our Garden Book of 1926, devoted to hardy Lilies.

Horsford's Lilies

are strong bulbs, free from disease. With a little care, fully explained in our Garden Book, they live and add their magnificent grace and beauty to the garden for years.

Here is a selection of Lilies suitable for Spring planting that will produce flowers from June until Autumn.

The complete collection $14.00. Half collection, three of each, $7.50.

Early	Medium	Later flowering
6 L. hansoni	6 L. regale	6 L. auratum
6 L. croceum	6 L. superbum	6 L. henryi
6 L. elegans	6 L. tigrinum	6 L. speciosum

Ferns Bring Woodland Charm to Your Home Grounds

These twenty-five sturdy ferns, in nine varieties, will lend a real "wood-like" touch to any nook or corner:

3 Lady Fern	3 Aspidium platyneuron	2 Royal Ferns
3 Aspidium marginale	3 Bladder Ferns	2 Christmas Ferns
3 Aspidium spinulosum	3 Hay Scented Ferns	3 Rusty Woodsias

This collection of Hardy Ferns for $3.00, not prepaid

Our Garden Book abounds with many similar offers of Lilies, Ferns and Wildflowers, besides a large assortment of the Choicest Hardy Perennials. *NOW* is the time to order for Spring planting. Send for our Garden Book. It is FREE. Let it aid you in your selection.

F. H. HORSFORD

Charlotte **Vermont**

Dahlia Aristocrats

Noir Alvarez
50c each

Bright Spots for Your Garden--at Half Price

for $1.00		for $3.00	
Darlene (regular price) $.35 Early pink and white Decorative		**Paul Michael** (regular price) $1.50 Giant gold Decorative	
Noir Alvarez . . . . . .50 Rich maroon (see cut)		**Glory of New Haven** . . . 1.00 Finest lavender Decorative	
Storm King . . . . . .25 Reliable pure white Show		**Mrs. C. D. Anderson** . . .50 Rich crimson-purple Show	
Pertha Bailey . . . . . .50 Scarlet and gold Peony		**Bertha Story** . . . . . 1.00 Rose-pink Decorative	
Frank A. Walker . . . . .25 Early lavender-pink Decorative		**Kalif** . . . . . 1.00 Best scarlet Hybrid Cactus	

(Field-grown tubers--guaranteed in every way)

Illustrated Catalog of the finest Dahlia Creations Free upon Request

J. HERBERT ALEXANDER

14-24 Summer St. **Middleboro, Mass.**

Dahlia *Town*

Makes Play of Grass Cutting

The Milbradt Power Lawn Mower

is simple in construction and runs so easily that anybody can operate it. The finest kind of a motor furnishes power to climb any grade and cut all kinds of grass. Engine drives both traction roller and cutting knives but they can be operated separately.

Satisfied users everywhere.

Send for descriptive booklet.

Milbradt Manufacturing Co.

Established 1895

2417 N. Tenth St. **St. Louis, Mo.**

"Best on Earth"
Gladioli

JOERG'S WHITE

JOERG'S WHITE

The Largest of all White Gladioli

Three years in succession it has beaten all comers at the great New York Gladiolus Show and received a special Trophy from Am. Glad. Soc. in 1924.
For size, form, and purity it stands supreme, whether in the garden or in competitive Exhibition. **Price per bulb, $3.50.**

(No smaller sizes or bulblets for sale)

Special Offer of 8 Splendid Standard Gladioli

	List Value
4 Mr. Mark, lavender-blue	$ .50
4 Mephisto, orange-scarlet	.83
4 Orange Glory, orange (ruffled)	1.00
4 Pink Wonder, clear pink	.83
4 Scarlano, orange-red	.83
4 Polar Star, snow-white	.83
4 La Couronne, cream, blotched maroon	.83
4 Golden Gate, golden orange	.83
32 Bulbs	*Value* $6.48

The above collection, post-paid anywhere in the U. S. for $5.00

Our 1926 illustrated catalogue of "Best on Earth" Gladioli, Dahlias, Pæonies, Pink Callas, Etc., mailed free anywhere.

GEORGE J. JOERG, Inc.
40 years growing Gladioli
NEW HYDE PARK Box G Long Island, N. Y.

SKINNER SYSTEM OF IRRIGATION

Our Type B, large area, Portable Sprinkler. It waters up to ¼ acre with one setting.

Ask for this booklet "Rain". It tells you how you can be sure to have the kind of lawn and garden that you have always wanted. It's free. Send for your copy to-day.

Tropical Lawn Flowers and Garden from Early Spring to Late Fall

Use the Skinner Irrigation System for garden and lawn and you'll eliminate the ravages of hot, dry weather. You'll minimize the dangers of an early frost. And through all the season, from early Spring to late Fall, your home surroundings will present the continued freshness, the luxuriant growth, and the rich beauty usually associated with tropical climes.

For with the Skinner Irrigation System, you have water in copious quantities wherever and whenever you want it. It rrigates large areas quickly and uniformly, yet its misty spray is adapted to the tenderest plants and flowers.

It is so easy to install and so low in price that no home ground, whether large or small, need be deprived of the benefits it gives. We'd like to tell you what it would do for you and your home surroundings.

Skinner Irrigation Co. 219 Water St., Troy, Ohio

Don't give the weeds a chance

The annual fight with weeds will soon begin. Will it be a nip and tuck race again this year, with you and your faithful but slow old hand hoe just a hop ahead or a hop behind? Or will you profit from former experience and get, at last, the Planet Jr. Wheel Hoe you've promised yourself all along?

Just think—a pair of keen hoe blades, attached to a light but sturdy steel wheel, with a pair of comfortable handles to push and slide the blades under and through whole bunches of weeds fighting to crowd and choke out your tender vegetables and flowers. Or a trio of stout shiny cultivator teeth to crumble the crust and work up a nice soil mulch to save moisture.

The Planet Jr. No. 17 Wheel Hoe is particularly popular with gardeners because it is so easy to use, costs so little, and does such a thorough job so easily. It's a pleasure to use. Ask your dealer for the Planet Jr. catalog and read all about it on pages 25 to 28. Or write us and we'll send catalog with new handbook on gardening.

S. L. ALLEN & CO., Inc.

For 54 Years Largest Manufacturers of Specialized Field and Garden Implements in the World.

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Planet Jr.

THE MOST UNCOMMON KINDS — Duckham's Hardy Plants — AND MOST GOOD COMMON KINDS

Duckham for Delphiniums

BECAUSE of their most uncommon and delightfully delicate shades, their unique flower formation and gigantic size of spike, Duckham's Delphiniums have found a hearty welcome among the floral aristocrats that make the old-fashioned borders "the wonder spots" of our greatest American gardens.

From all States in the Union, gardening enthusiasts are buying my English Delphiniums.

People are talking about them wherever and whenever "Gardening" becomes a social topic. At leading American Flower Shows.

Duckham's Delphiniums have been awarded Special Medals.

Their merit is acknowledged by the greatest judges.

They have completely upset the accepted standard of **"Delphinium Perfection",** and created for themselves a leadership in a new class.

Duckham's "INIMITABLE MIXED HYBRIDS"

Large field-grown clumps that will flower this year, complete range of colors with many new shades.

Per dozen $11.00; per 100 $85.00

My new catalog, featuring a few spikes of these remarkable flowers in colors, and a very choice list of rare named hybrids,—a select list of Hardy Plants, and choice Garden Roses, mailed free on request.

William C. Duckham

Rose and Hardy Plant Specialist

(Box G) Madison, New Jersey

A distinctive feature of many of the Duckham Hybrid Delphiniums is the huge tapering spike.

New Glads from Vaughan's

WE are the largest American growers of gladioli. Soil, climate and skill combine on our Michigan farms to produce vigorous bulbs which are famous for their large and brilliant flowers. Annually we select from our thousands of seedlings, varieties of merit to introduce. Vaughan's 1926 Gardening Illustrated contains the most complete list of gladioli published, including the best of American and European varieties. Send for FREE copy. We recommend especially the following:—

Ionia, shown here, a giant, pale yellow, suffused with pink. Season 80 days. Each, 35c; doz. $3.50.

Ridinghood, a bright red primulinus hybrid. Each, 50c; doz. $5.00.

Mrs. L. S. Hubbard, plum colored primulinus, season 68 days. Each, 35c; doz. $3.50.

Kalamazoo, reddish violet, large flowers, season 80 days. Each, 35c; doz. $3.50.

Sovereign, an improvement on Baron Hulot; finest of all the blue-purples. Each, $1.00; doz. $10.00.

Mrs. Julius Rosenwald, wine red, flaked with deeper red. Large and well placed flowers. Each, $1.00; doz. $10.00.

Vaughan's Rainbow Collections

Twelve first size bulbs of twelve different named varieties, postpaid for $1.00. Thirty flowering size bulbs, not less than five varieties, postpaid for $1.00.

Vaughan's Seed Store

Dept. 93

47-49 Barclay St. New York City

10-12 W. Randolph St., Chicago, Ill.

You can choose among
SEVEN FINE VARIETIES
Propagated at Whitesbog

You can have this unique fruit in your own garden. Blueberries—large, practically seedless, sweet, with a delicate tangy flavor. Whitesbog offers you *tested, named varieties,* propagated true to name. Besides furnishing a delicacy for your table, Whitesbog Blueberry Plants add beauty to your garden. Bushes are compact, symmetrical and decorative even in winter.

Write for illustrated circular on varieties and cultivation.

WHITESBOG
BLUEBERRY NURSERIES
Headquarters for Purebred Blueberry Plants
JOSEPH J. WHITE, INC.
Box F Whitesbog, N. J.

The Famous Bossert *"RADIO"* Bungalow Now Designed in Six Sizes!

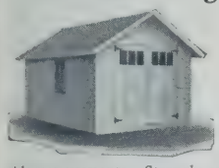
THIS is the wonderful little bungalow that sprang into such unprecedented popularity among vacationists last Spring, when introduced in one size. So many requests have been received, however, for the "Radio" Bungalow in larger or smaller sizes that we now offer it in six sizes, ready for immediate shipment.

Easily erected by unskilled help within day and a half. Can be taken down and put up again without trouble. Sturdily built, will last for years.

Priced from $500 TO $870
F. O. B. BROOKLYN
(From 3 to 5 Rooms with porch)

Ideal for seashore or mountains—write at once for illustrated folder, giving floor plans and complete information.

"RADIO" Garage **ONLY $295**
F. O. B. BROOKLYN



Handsomely designed. Comes sectional - built; 12 ft. x 18 ft. inside measurements. Strongly constructed. Can be erected by unskilled labor in 8 or 10 hours. Carried in stock for immediate shipment.

LOUIS BOSSERT & SONS, Inc.
"Largest Lumber Plant in the East"
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LEONARD'S SEEDS

IN BULK

For Sale
at your nearest dealer

HAVE a better garden this year by planting LEONARD'S BULK GARDEN SEEDS, the kind that have been used for over forty years by the most critical Market Gardeners.

Look for the Leonard Label at your dealer's and insist on having only LEONARD'S SEEDS. If he cannot supply you, write us direct, sending dealer's name.

If you are a Tomato enthusiast try Leonard's Red Head.

"More profit and pleasure from a Garden planted with LEONARD SEEDS."

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Wholesale Seed Growers
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BOLENS—

The Ever-Ready Handy Man

HERE is a helper that is always ready to do your bidding—in a great variety of ways. It transforms otherwise tedious tasks into a series of pleasant operations. Gone are the days when you had to look forward to lawn mowing, cultivating, and other garden duties with dread. Man's great silent ally—gasoline—plus the BOLENS—makes short work of it all! Our engineers have given you a machine in which are incorporated all the latest devices for putting to work a maximum of power at low cost. There are attachments for seeding, weeding, cultivating, not to mention lawn mowing, all of which are instantly interchangeable. A special arched axle enables straddle cultivation of rows, making possible close cultivation, thereby saving hand labor.

The Power Mower is of great flexibility, enabling the operator to easily follow winding paths, dodge shrubs, and plants on the lawn, and what is more important, it gets readily into the nooks and corners which cannot be invaded by a cumbersome machine.

Please afford our free illustrated free booklet a further opportunity to acquaint you more fully with what the BOLENS can and will do for you.

You are cordially invited to visit our exhibit at the International Flower Show to be held in Grand Central Palace, New York City on March 15-20.

Gilson Manufacturing Co.
516 Park Street Port Washington, Wisc.

Special Attention
Wholesale Trade of Dahlia Tubers
for next planting

Once more The Padre's Botanical Gardens, are offering the unusual bargain of from 50 to 60% discount on Dahlia tubers, because, going out of growing for sale entirely, the whole stock on hand must be disposed of immediately.

No orders less than 100 tubers can be accepted.

The supply includes the best leading varieties, foreign and domestic, especially California ones, including many of my own new productions.

Most unfortunately the flood caused by the earthquake through the breaking of the water reservoir last June 29th, did unmeasurable damage to the gardens not only by rooting up plants, but also by washing the labels away. From 15,000 Dahlia plants only 5,000 could be relabeled again, although some of the choicest and latest varieties were just amongst those from which the labels were lost.

To make the present offering still more attractive and unusual, I will throw in free of charge the same amount of tubers from these that could be relabeled after the flood, as ordered, provided, however, that the order is for the run of the garden. This I must do if I want to succeed to sell out the whole supply on hand. Of some varieties the supply may be as many as 200 good salable tubers, while the newer varieties not more than a dozen and less can be offered.

Being willing to sacrifice these unlabeled varieties free of charge it actually means a discount of 75%.

There are also yet some California Giant Gladioli Bulbs on hand at half price, Dahlia and Gladioli Seed, and 20,000 roses, at 25% discount.

Act quickly if you want to benefit from this order.

Address all communications to

The PADRE'S BOTANICAL GARDENS
Rev. Geo. M. A. Schoener
125 So. Milpas St., Santa Barbara, Calif.

GROWN AND HARVESTED UNDER THE DIRECTION OF RICHARD DIENER, HIMSELF

Diener's
Gladiolus

Diener originations are featured by Gladiolus experts—professional and amateur—everywhere, in their own gardens. Only thus is high recognitiom given to the distinctive quality of Diener varieties. And small wonder! For it is said of Diener that he leads the world in the origination of high-score, named varieties of Gladiolus.

Hundreds of flower lovers from every part of the world send direct to us annualy for genuine Diener bulbs. They know the satisfaction that comes from planting our bulbs—strong and true-to-name—grown and harvested under the personal direction of the originator, Richard Diener, himself, in the Valley of the Moon, beloved of Jack London.

We have harvested this year a wonderful crop of bulbs, healthy and bursting with ambition to put forth spikes, heavy with bloom. While we can take care of more orders than in previous years, remember our supply is not inexhaustible. Already orders are pouring in from customers of other seasons, who have found that Diener Gladiolus grow easily anywhere. There is a heavy demand for our most popular varieties. If you are one of our former customers, consult the new catalog we have sent you. Order now. We will ship at your convenience.

Save $2.40 On This Collection

A collection of Diener Gladiolus that will give you a fine choice of colors in blooms with both ruffled and straight edges, is our Garden & Home Builder special No. 4. Only $5 for 17 full sized bulbs, regularly priced at $7.40. Included are: Henry Ford, Nectarine, Mrs. J. K. Armsby, Sunset, Aloha, Mrs. Mary Stearns Burke, Mrs. Newell Vanderbilt, London Smoke, Hawaii, Marin, Victory, Salome Jane, Mr. H. A. Hyde, Mrs. Rudolph Spreckles, Eldiva, Wistaria, Fairfax.

You will want our beautiful catalog

If you have never grown bulbs bought direct from Diener send to-day for our complete 1926 price list and our finely illustrated flower book, showing in natural colors many of our gladiolus and petunias. Also describes our Amaryllis, Delphiniums, Roses and other specialties. Contains valuable cultural suggestions. Mailed free if you mention Garden & Home Builder.

Richard Diener Company Inc.

Originators of Gladiolus and Petunias World-famous for size and high quality

Box 6023, Kentfield, Marin County, California

Mid-Summer Garden Joys Come From Waterlilies That You Select This Month

Hardy and Tender varieties, Day and Night bloomers, add so much to the charm of a garden that they are well-nigh indispensable.

Waterlilies can be had just as easily as any other flowers. All you need is a tub, a pool, or a small pond. From my booklet select *now* the varieties you like, and I will send them at the proper planting time.

Tricker's Waterlily Booklet

tells how to build a pool, names Lilies for tub and pool growing, and shows how easy it is to have beautiful Waterlilies in many different colors. Better send to-day for a copy.

WILLIAM TRICKER

Largest Grower of Aquatics in America

661 Forest St., Arlington, New Jersey

Completely Enclosed Transmission

No Chains No Sprockets

A Mower That Stands Strenuous Every-Day Work

The Jacobsen Heavy-Duty Mower is a development of our well-known 4-Acre general purpose power lawn mower. It has a larger, more powerful motor—differential as well as transmission run in oil, and fully enclosed in sand proof housing. Reel is sharpened by mower's own power. Separate clutch control for traction and cutting reel. Ideal for parks, extensive lawns and golf course work on bunkers and about sand traps. There's a Jacobsen Mower for every need—a 19-inch Junior Power Mower, a Putting Green Mower, an Estate Mower, a Riding Mower, etc. Demonstrations arranged without obligation. Beautifully illustrated literature on request.

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Eastern Office
245 WEST 55th STREET
NEW YORK CITY
NEW YORK

Jacobsen Heavy Duty Power Lawn Mowers

2-26

DUBL-DUTI CULTIVATOR Ten Times FASTER

One push-pull srroke cultivates and weeds 24 inches of soil.

Takes 24 chopping strokes of a common hoe to do same work.

Get all the weeds with less work. The **keen, double-edged steel rocking blade** of the Gilson Dubl-Duti Cultivator cuts weeds going and coming and leaves a fine mulch. Also has 6 sturdy rake teeth —two tools in one.

Wonder Dandelion Digger

One blade cuts the root deep under the soil—claw blade pulls it out. Does not mar or break the soil.

Special FREE Premium Offer

1—Six-in. blade, "Dubl-Duti" Cultivator. 1 Dandelion Digger, total value $2.30, both for **Special $1.85**

Gilson Scratch Weeder and Garden Book included free. **SEND NO MONEY.** Pay postman $1.85 plus small C. O. D. charge.

J. E. GILSON CO.
21 Western Ave., Port Washington, Wis.

Gardens and Lawns—Thrive when Properly Fed!

Plants, trees, lawns, bushes, flowers, vegetables, thrive—when they are fed at the proper time with proper food.

Sheep's Head Brand Pulverized Sheep Manure

contains all the natural vital elements of a complete plant food, including nitrogen, phosphoric acid, potash and —HUMUS!

100% pure—not adulterated with garbage, tankage, straw or any other "dead" material.

Sterilized of weed seeds.

Distributed in neat containers, 2, 5, 10, 25, 50, 100-lb.

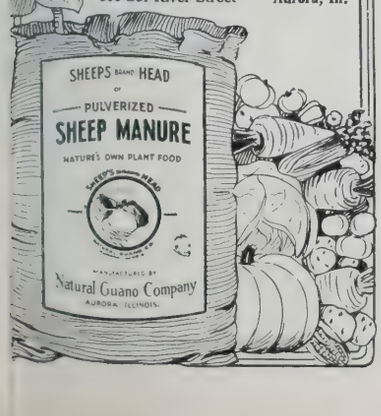
If your dealer does not handle, order direct, trial quantity sufficient to dress lawn and gardens of an average home—

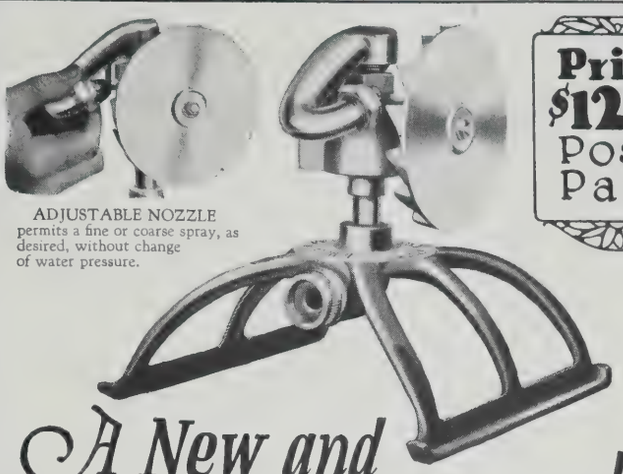
Two 100-pound bags Sheep's Head Concentrated Sheep Manure, $5.00

Quantity Prices on application.

Ask for Free Leaflet, "How to make Beautiful Lawns and Gardens."

NATURAL GUANO CO.
806 So. River Street Aurora, Ill.





Price $12.50 Post Paid

A New and Improved Model!

The new, improved DOUBLE ROTARY Sprinkler is a better, sturdier, double-efficiency sprinkler made to irrigate large areas—made to give satisfactory service for years and years! The DOUBLE ROTARY should not be confused with the small, ordinary type of lawn sprinkler. It operates on an entirely different principle—"sprinkles like a gentle shower" in a circle of from 15 to 80 feet according to water pressure. The water is forced against the swiftly revolving wheel, cutting the water into drops like rain. A new feature is the easily adjusted nozzle which by a simple turn with the fingers gives a coarse or mist-like spray, without changing the water pressure. Sturdy skid-base makes it easily moveable by pulling on hose.

The DOUBLE ROTARY has been tested and approved by home owners, nurserymen, park commissioners and golf course engineers in all parts of the country. Thousands now in use. One test will prove its wonderful efficiency and its economy.

This improved sprinkler is a work-saver; operates automatically—needs no attention. Durably built of interchangeable parts. Working parts run in a bath of oil.

Order on approval. The DOUBLE ROTARY is sold Direct from Factory on a *Satisfaction or Money-Back Guarantee.* Price $12.50 postpaid anywhere. If not satisfactory in every way, return sprinkler and your money will be refunded. Descriptive literature on request.

Double Rotary Sprinkler Co.
1205 Coca Cola Building Kansas City, Mo.

DOUBLE ROTARY
REG U.S PAT OFF
SPRINKLER
Next Best to Rain

Send this Coupon, Please

Double Rotary Sprinkler Co.
1205 Coca Cola Bldg., Kansas City, Mo.

Gentlemen: I enclose $12.50 for one DOUBLE ROTARY Sprinkler to be shipped postpaid to my address and according to your Satisfaction or Money-Back Guarantee.

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Name.....

Address.....

Prize-Winning Dahlias

Charles Stratton, a prize winner everywhere; Miss Bridgeton; Lyndora, and all leading Dahlias that have won prizes at all the shows.

Our healthy stock is unlimited. We fill orders promptly, without substitution. All stock guaranteed true to name and of best quality.

Send for catalogue giving dependable descriptions, before placing your order

The FENWICK GARDENS
C. C. MILLER, *Manager*
Growers of Dahlias, Peonies and Gladioli
Salem New Jersey

The Seal of Connecticut

Our Winning Decorative Dahlia

AWARDED FIRST PRIZE
FOR BEST YELLOW IN ENTIRE
New York (A.D.S.) Show,
September, 1925

Pronounced as "far superior" to all existing yellows. Color is absolutely clear, rich golden yellow. Fine form and habit.

TUBERS $10. Each PLANTS $5. Each
April and May, 1926, Delivery

May we send you a copy of our 1926 Catalogue

C. LOUIS ALLING
Dahlia Specialist
251 Court Street West Haven, Conn.

AMERICAN NURSERY CO.
NEW YORK

Do You Want

Evergreens for a Screen
Trees for Shade
Shrubs for a Foundation
Planting or Border
Vines for a Wall
Native Material for
A Naturalistic Planting
Fruit Trees and Bushes
Roses—Bush and Climbers
Hardy Garden Plants

We have them all—and at fair prices

What would you say to a truck load of collected Rhododendron, Azalea, Mountain Laurel, Pines and Hemlocks delivered at your door—Some of each or all of one variety.

The reasonable price per plant will surprise you.

Do you need some big trees for immediate effect, Maples–Beeches Magnolia – Fir – Cypress – Juniper Spruce–Taxus–Pine–Hemlock.

They are unusual and beautiful specimens.

We have them near New York.
We will deliver and replant them.
Prices upon application

The American Nursery Co.
70 East 45th St. New York
Our Spring Price list is ready.
A copy is yours for the asking.

Big Gladiolus GARDEN $1.35

INCLUDING
FROST PROOF PANSY
& BUTTERFLY FLOWER
FREE

CHILDS GLADIOLUS are world famous. 50 Bulbs, newer varieties; wonderful shades and colors. Make a glorious garden. Sure to grow and delight. Order at once and we will include without additional cost, a packet each of Frost Proof Pansy, 35 cts., and Butterfly Flower 15 cts., all for $1.35 postpaid.

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Have the first Sweet Corn. Beat your neighbors with Childs 60 Day Corn, 3 ft. high, heavy yielder of good sized ears which are delicious. Just right for small gardens. Best for market growing, 50 cts. per lb.

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Packet seeds GIVEN with each order. Will produce many beautiful flowering plants of different kinds.

Send for catalogue of Guaranteed Seeds, Bulbs, and Plants. Many varieties not obtainable elsewhere.

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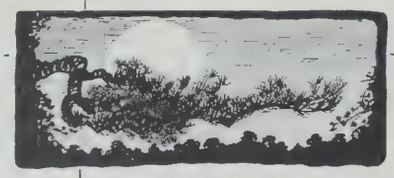

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A 15 foot border for
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Special collections, at moderate prices, that will effectively solve many of your planting problems.

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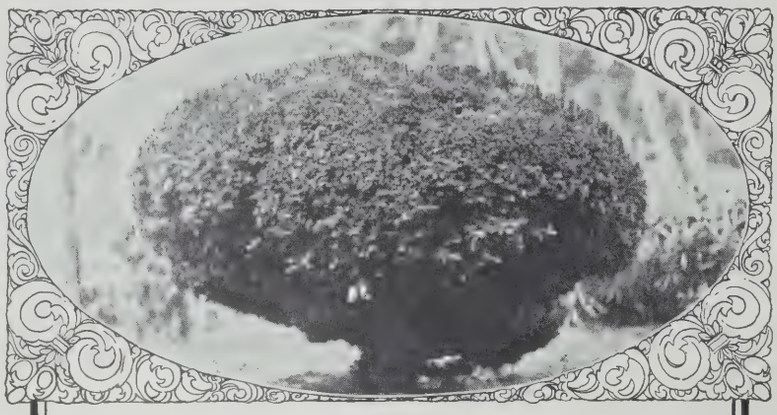
Moon's Nurseries
THE WM H MOON CO.
MORRISVILLE, PENNA.
One Mile from Trenton, New Jersey



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Cherished in old families for centuries as the most precious of heirlooms, there can be no question of the value, the dignity, the air of permanence conferred by

Age-old Boxwood Trees

Only years—generations of years—can produce such generous mellowed growth and stately dignity. Few century-old trees have escaped to the general nursery trade, and America is still too young to have produced large Box in quantity.

Our collection at Stroudsburg—gathered from all over the country—includes Box 2 to 8 feet high and more in spread; many are wonderful specimens, and all are symmetrical in form. Moreover, these specimens are fully acclimated to our vigorous mountain seasons.

Send for our special price list, or better still come to the nursery and inspect these superb specimens.

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On Own Roots

A MAGNIFICENT *new* Dingee rose, the "Silver Columbia," is shown below. A hardy luxuriant bloomer, it grows in or out of doors without coaxing. It is graceful, fragrant, colorful. Rose lovers everywhere plant Dingee rose bushes. They are strong and sturdy—pot grown—on their own roots. Plant them any time, anywhere. Beautiful new varieties and all the old favorites. Safe delivery guaranteed anywhere in U. S.

"Our New Guide to Rose Culture"

for 1926 *Sent Free on Request*

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5 Garden ROSES

On their own roots. Sure to bloom.

Rainbow Collection
Edel—old ivory
Lady Ursula—flesh pink
Mrs. H. Winnett—crimson
Melody—yellow
My Maryland—pink

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All G&R roses are grown in large quantities, which enables us to sell them at moderate prices.

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Largest rose growers in the world.
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"The Birthplace of Better Dahlias"

Five of our introductions are included in this year's list of Certified Dahlias. A guarantee that "Success" Dahlias will grow successfully. We offer for this year

"Alice Whittier"

This immense yellow hybrid cactus often grows 10-12 inches, held perfectly erect on cane stiff stems. Winner President's Cup Boston Dahlia Show. No better Dahlia grows. Bulb, $10.00; plant $5.00.

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This dazzling hybrid cactus that was the second highest scoring Dahlia at Storrs Trial Garden, 1924, with 143 varieties competing. A dazzling color face of petals spectrum red or scarlet, reverse a beautiful buff, the petals twisting showing reverse. Nine inch and over flowers held erect on long, slim cane stiff stems. Stock limited. Bulb, $10.00; plant, $5.00.

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The blackest Dahlia to date. A decorative that appeals to those who want something different. Large 8-10 inch bloom held erect on perfect stems. A winner everywhere. Stock very limited. Bulb, $7.50; plant $3.75

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This large decorative is carried erect on very long stems that hold the bloom well above the foliage. Color old rose with blending of other colors making it very attractive. This is a bargain, a new 1926 Dahlia for anyone. Bulb, $3.00.

Our catalog, sent on request, contains a list of the latest creations of other growers at reasonable prices. Send your order for the above Dahlias NOW. Mention this paper.

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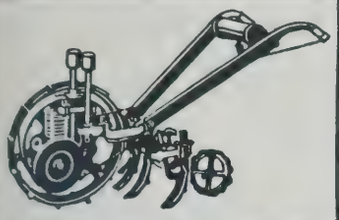

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Easily equipped in five minutes for Power Lawnmowing work, —31 inch heavy duty, steel mower cuts ¾ acre per hour. A decided time saver on large lawns, golf clubs, cemeteries, city parks, etc.

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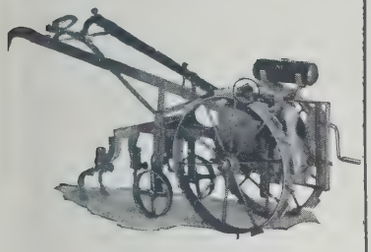

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The machine that will cultivate, disc, hoe, seed, do power work, spray your trees and mow your lawn.

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The Acme Cultivator Co.
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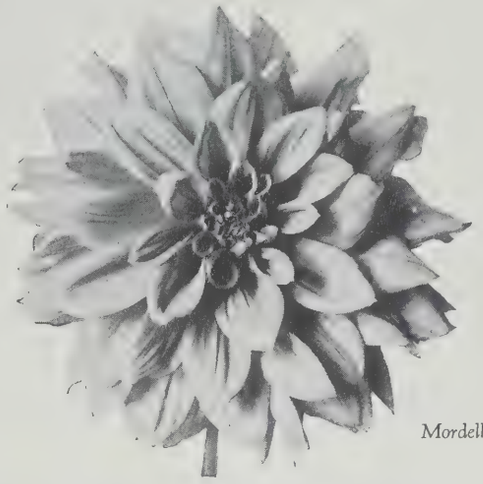
Kemp's Wonder Dahlias



Mordella

MORDELLA—(A Kemp 1925 Introduction.)

The Real Art Dahlia. Unquestionably the most beautiful autumn toned Dahlia in existence. A color GEM of Apricot Buff, a favorite with all who know it, and a many time prize winner in 1925. Tubers $5.00 each, Plants $2.50 each.

ROBERT TREAT—(A Kemp 1925 Introduction.)

The American Beauty colored Dahlia. Robert Treat won the Garden & Home Builder Sweepstakes prize New York, 1924. And this past season had more first prizes to its credit than any other 1924 introduction. Considered one of the finest Dahlias. Rich in color, a fine grower and profuse bloomer. Tubers $5.00 each, Plants $2.50 each.

Special Offer:—1 Tuber each, of Robert Treat & Mordella **$9.00** P. P.
1 Plant " " " " " **$4.50** P. P.

My 1926 Catalogue

Is in rotogravure beautifully illustrated. It lists the following really "great" Dahlias—Ask for a copy

Elite Glory (Illustrated)	Jersey's Beacon	Adda Patterson (Illustrated)
Roman Eagle	Jersey's Empress	Sagamore (Illustrated)
Robert Treat (Illustrated)	Jersey's Supreme	Rose Marie Fridolin
Mordella (Illustrated)	Jersey's Sovereign	Sanhican's Magnate
The Trentonian (Illustrated)	Altamont (Illustrated)	Sanhican's Monarch
Jersey's Ideal	Glory of Monmouth (Illustrated)	Margaret Woodrow Wilson
	Sanhican's Blue Bird	Eastern Star

Together with many of the choicest of the standard Dahlias that have succeeded wherever grown.

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Breeding and growing Gladiolus has been my hobby for more than a quarter of a century. My 1926 catalogue lists many of the finest ever offered in any catalogue. Not only my own wonderful varieties, but the best from the leading American growers. Here are a few of the Wonderful Glads listed that have stood the test of showroom and garden competition.

Albania (Illustrated)	Golden Swallow (Illustrated)
Pink Wonder (Illustrated)	Yellow Treasure
White Wonder	Tycko Zang
Scarlet Wonder	Rose Mary (Illustrated)
Chas. L. Hutchinson	Joergs White
Genesee (Illustrated)	Phantasy
Jacob Von Beyren (Illustrated)	Marnia
Sunnymede (Illustrated)	Quinton

All of these Glads are described in my 1926 catalogue and many of them are illustrated. Ask for copy.

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To all inquiries for Catalogue inclosing $1.00 I will send 50 fine mixed Gladiolus Bulbs—postpaid to any U. S. Address.

J. A. KEMP
Glad-Dahlia Specialist
LITTLE SILVER **NEW JERSEY**

IRIS for Spring Planting

OH BOY! You should see what we have. Lots of them, strong and healthy.

We specialize in SERVICE not Promises.

Catchy advertisements may induce a person to order once, but to make him a permanent customer he must be used *right*.

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The Standard Insecticide-Harmless-Easy to Use

SURE DEATH TO ALL INSECTS and BUGS

Recognized as the best insecticide for your flowers, shrubs, evergreens, vegetables, etc. For years it has been used by the most exacting florists and estate superintendents. Absolutely harmless and clean, both for indoor plants as well as outdoor gardens.

Recommended by the officers of the Garden Club of America

FREE

Write for a copy of Wilson's Spray Calendar (gives you correct month in which to spray your different plants.)

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Don't hoe . . . just sprinkle with Wilson's Weed Killer. One application a season is sufficient to kill all the weeds in your walks, gutters, etc.

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Fairfax Roses, Sturdy, Vigorous

plants grow outdoors, acclimated to all climates. One-year and two-year plants ready for shipment; the healthy, hardy roots of Fairfax Rose Plants assure a **free and beauteous bloom the first season.**

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Send for beautiful Fairfax Rose Book containing valuable information on rose culture as well as most beautiful illustrations and descriptions of ROYAL ROSES OF PURITY AND BEAUTY—the "Pride of the Earth."

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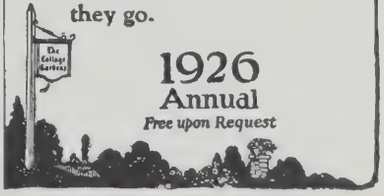
The rugged climate of Michigan embodies COTTAGE GARDENS Perennials with that sturdiness that ensures satisfaction wherever they go.



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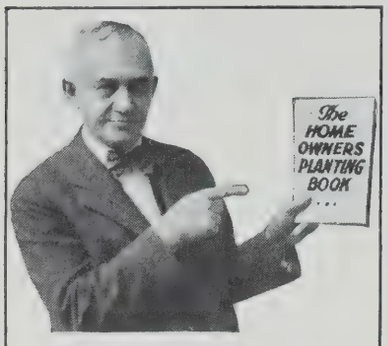
Free upon Request



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It contains the best list of roses, shrubs, fruits and trees. Arranged so that you know at once what you need. NO OTHER BOOK LIKE IT ANYWHERE. Written by an expert and so complete you do not need a landscape architect. Send for your copy today.

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12 named varieties of Gladioli **$1.00**

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HARDY GLOXINIA

Incarvillea delavayi

A rare and very choice perennial, perfectly hardy here. Vivid rose colored flowers in clusters like the Gloxinia, although the growth is taller and larger. Seen at a little distance the effect is that of a clump of very pink iris.

Price each 50c; $5.00 per 12.

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$1.00 will bring you postpaid my RAINBOW COLLECTION of 30 bulbs, one each of 30 different varieties. Would cost nearly $3.00 if purchased separately labeled. Many rare colors. Will give you pleasure for years to come!

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Lingers in the garden where the Laurel and the Rhododendron grow

FRESH from the chilly summits of the famed Blue Ridge, still keeping the elusive charm of things half-wild, these shy mountain denizens slip gracefully into the places prepared for them and settle snugly there as natives quite at home.

Laurel and *Rhododendron,* of course; *Ferns* and *Evergreen Vines, Holly, Magnolia, Leucothoe* and *Pieris floribunda; Azaleas* of flaming hues, and all the dainty, native wildings which are so swiftly disappearing from our woods.

From a single plant to carloads, to furnish a backyard, or to renovate a mountain —send for my list and prices.

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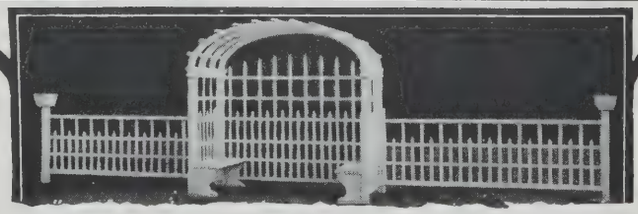

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Garden lovers who must temper their Enthusiasm with Economy are delighted with the simple, artistic gracefulness and very modest cost of the new Unadilla Yard and Garden decorations.

Pergolas that protect from the too ardent sun; arbors that persuade the temperamental vines upward; fences that guard your privacy; Grecian benches that lure you into the garden on moonlight nights—in truth, all the accessories and furniture that make you proud of your garden, are now available at prices you can well afford to pay.

Painted white, sturdily built of selected, durable lumber, this Unadilla furniture comes all ready to set up. Any piece adds value to your property.

Send 10c for catalog giving descriptions and prices.

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10-1 yr Roses $1 Grand collection, gorgeous bloomers; all shades.

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Above Roses are monthly bloomers. All will bloom this summer

10 Hardy Climbing or 10 June Roses, same prices

All Sorts of Nice Things for Your Garden

6 Chrysanthemums. Prize winners. All colors	$ .4
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"Best Weed Killer Ever Used"

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Kills the weeds and breaks the hardest crust into a level, porous, moisture-retaining mulch—*all in one operation.* Eight reel blades revolve against a stationary underground knife—like a lawn mower. Aerates the soil. Cuts runners. Works right up to the plants. Has leaf guards; also shovels for deeper cultivation. Work as fast as you can walk. No stooping, jerking, tugging. A boy with this machine can do more and better work than ten men with hoes. Five sizes. Inexpensive. Write to-day for FREE book and special Factory-to-User Offer.

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ARE the hardiest, easiest growing, freest blooming rose plants in America. Always grown on their own roots in the fertile soil of Newcastle. We are expert rose growers and give you the benefit of a lifetime experience and the most select list in America. Every desirable rose now cultivated in America is included in our immense stock—and the prices are right. Cannas, Geraniums, Dahlias, Phlox, Peonies, Ferns, Gladioli, Cyclamen, Perennials and Hardy Shrubs. *Our Rose Book for 1926, entitled—*

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tells you how to make rose growing a success. The most complete book on rose culture ever published, elaborately printed in actual colors. Gives all information you need. It's free. Send for your copy today.

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Gorgeous in the glory of its coloring—stately and regal in its growth—this new and magnificently beautiful canna with its rare rose-gold tinting is proving a sensation. Unobtainable from any other source. Named and introduced by us. Price, postpaid 3 for $1.00; each 50c.

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It is a gold mine for the flower-raiser and the home gardener.

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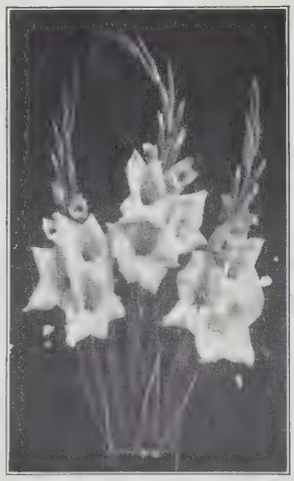

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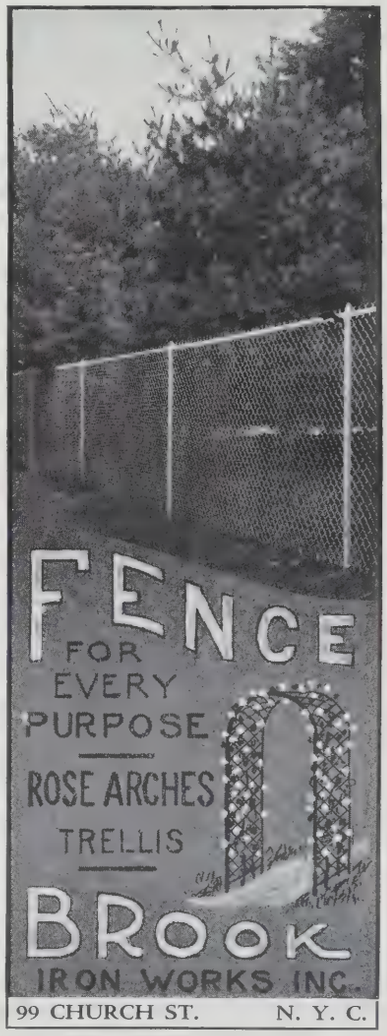

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Firefly—Our new decorative, described in December Garden & Home Builder as "the brightest colored of all the novelties"—a brilliant scarlet-orange and a beautiful flower.

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Also **Barbara Waite.** Old gold overlaid pink decorative. Cert. of Merit, New Jersey Trial Grounds, 1925.

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Free for the asking

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In heavy Pewter. Simple but choice

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Our lighting fixtures are made by hand from old mirror glass and pewter, just as the fathers made them.

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Plants for the old-fashioned flower gardens.

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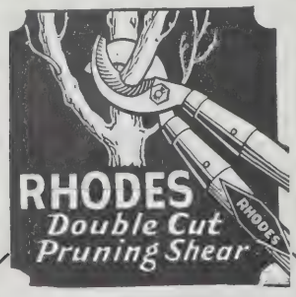

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Our Introduction 1926

"Alexander Pope"

A giant Hybrid Cactus of great depth, often 6 inches, with a long stem that does not bend. Color is a beautiful shade of crimson, reverse petals magenta, the petals have a metallic lustre and twist showing reverse. Center is almost black. This dahlia has won first prize in every entry it has made.

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Send For This Catalog

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It tells of Shirley Ann's Treasure Box, a choice collection made by a lovely old-timey New England lady.
There is a wonderful hollyhock collection, straight from Provincetown's famous Hollyhock Lane.
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Complete the Home

INDIANA dahlias

Send for your copy of our catalog now—*before planting time*

These 6 superb Dahlias worth $6.75 for— **$5**

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Violet Girl	1.00
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It is a permanent investment in soil enrichment

$5.00 for 5, 100-lb. bags
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has, since 1881, specialized in

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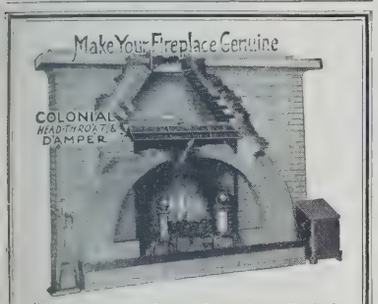

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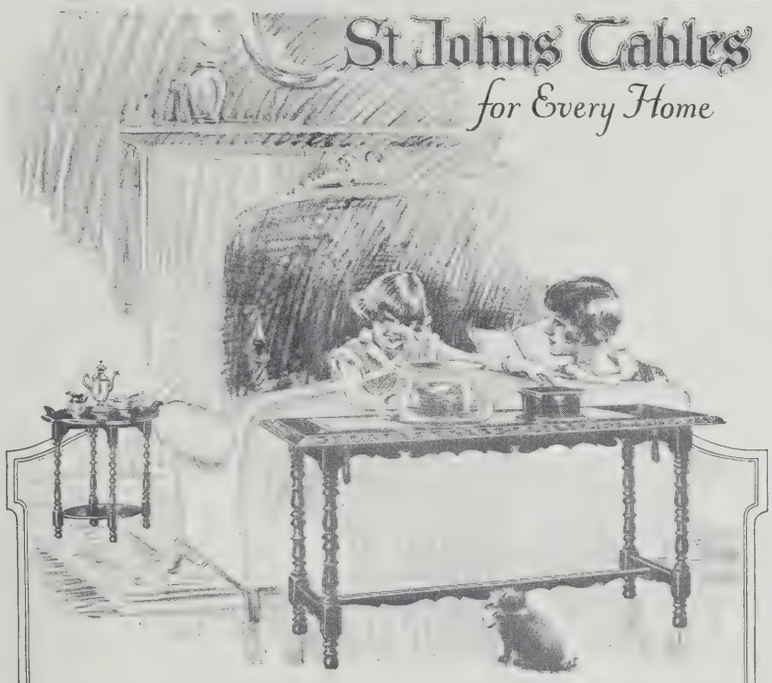
441 Madison Avenue New York City

St. Johns Tables *for Every Home*



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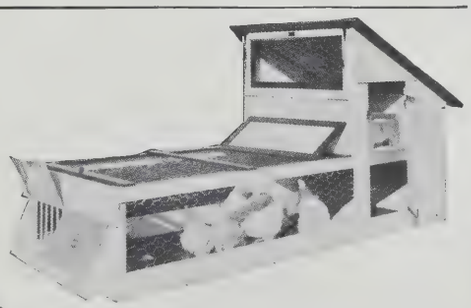
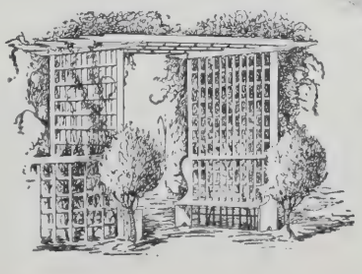
St. Johns Table Company
Cadillac Box 630 Michigan

Dog kennel with partition. Walls and roof of cedar. Yellow pine floor.





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HODGSON *Portable* HOUSES

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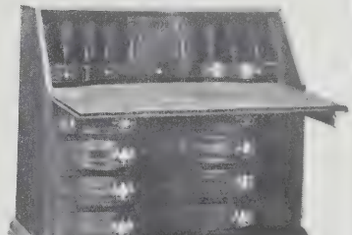

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WHITE SPRUCE, 1½ to 2 ft. tall. Distinguished by its symmetrical growth and silvery luster. Very decorative, singly or grouped.

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2 to 2½ ft. tall. A beautiful lawn tree with light green foliage and fine, soft needles. Easily sheared, unusually hardy, grows anywhere.

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2½ to 3 ft. tall. Very symmetrical, with rounded spire and dark green, dense foliage. Popular for tubs, along paths, as garden accents, etc. Can be kept at uniform height.

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4 for only $10.00

This special group price saves you 25% of the cost of the same beautiful trees purchased singly. Use the coupon.

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AMERICAN FORESTRY COMPANY
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Peace—White, lilac center	.06	.60
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All delivered East of the Miss. River. For points West and Canada add 25c. Order these unusual values direct, shipment will be made at proper planting time.

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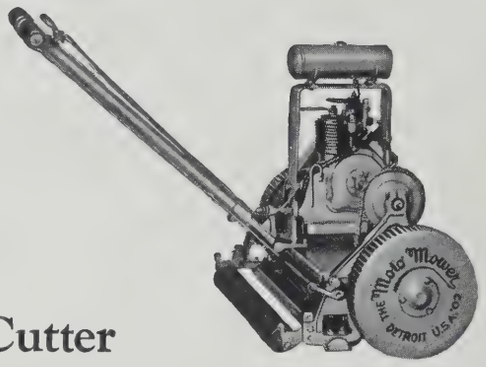

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An immense flower belonging to the Hybrid-Cactus type. The color is bright mallow-pink at the tips of the petals, shading to white toward the base. **$2.00 each; 3 for $5.40; 6 for $10.00.**

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This collection contains **one strong planting division each** of the six large flowered and free-blooming Dahlias pictured and described above. Purchased separately, these six varieties would cost $11.50. They will be mailed, postpaid, to your door for . . . **$8.50**

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APRIL 1926
35 CENTS

HOME MAKERS' IDEA BOOK

1926

SEEING ITALY'S GARDENS

GLADIOLUS FASHIONS

Vol. LIII. No. 2

Special Issue No. 2

Boston *Doubleday, Page & Company, Garden City, N. Y.* *Chicago*

Screening of steel casement window in living room. From actual photograph. Residence of Dr. R. Paul Scudder, Cincinnati, James Gilmore, Architect.

Porch of Edw. F. Fisher, Detroit, Michigan. Richard H. Marr, Architect. All-bronze construction. Note the freedom from obstruction of view.

A Higgin screened kitchen.

Screens like these preserve the effect the architect planned

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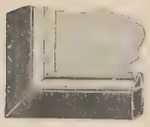

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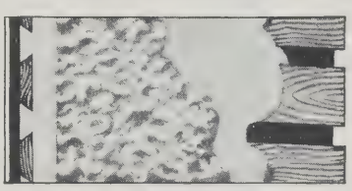
Bishopric is a *unit-wall* construction. It consists of (1) a patented base, (2) a stucco, and (3) an attractive color finish.

All three materials are designed and made to be used together. They combine to form a *unit-wall*—as opposed to a wall made from miscellaneous materials mixed together.

The result is a coherence and strength of construction obtainable only with Bishopric. The diagram at the right illustrates why this is so.



THIS IS THE UNIT WALL

Its foundation is Bishopric Base, nailed securely to the studdings. It consists of finest quality fibre-board (with felt for insulating base.) This is heavily coated with asphalt mastic—air tight, vermin proof, fire resisting. Into this are embedded bone dry wood bars under great pressure.

Over this base is applied Bishopric Stucco, locking into the grooves provided by the Bishopric Base and forming a complete wall *unit*. Note how stucco and base lock together.

Bishopric Stucco is mixed in exact, scientifically determined proportions.

Finally, Bishopric Sunfast Finish is applied, giving your home the charm of lovely color. There are many attractive tints for you to choose from.

Bishopric is also economical. It may be applied directly to studdings, producing a stronger, warmer wall than sheathing, metal base, and stucco—and the cost is less.

Bishopric Stucco is also applied with excellent results over hollow tile, concrete blocks, and similar materials.

Send for FREE BOOK

You cannot fully realize the wonderful possibilities of stucco as a building material for your home until you have read our beautiful de luxe booklet, "The Renaissance of Colored Stucco."

Before you make further plans send for this valuable book, fully illustrated in color. It is free—simply send the coupon. Clip it now.

The BISHOPRIC MANUFACTURING Co.
304 ESTE AVE. CINCINNATI OHIO.
NEW YORK CITY CINCINNATI OTTAWA, CANADA
The BISHOPRIC MFG. CO. OF CALIFORNIA
LOS ANGELES

THE BISHOPRIC MFG. CO.
304 Este Avenue, Cincinnati, Ohio

Please send me without charge your new booklet, "The Renaissance of Colored Stucco."

WRITE NAME AND ADDRESS BELOW

_____

_____

_____

B I S H O P R I C

That Woodland Atmosphere

A FEW rocks peeping discreetly through the ground; a rambling mass of foliage, with an occasional exclamation mark in form of a lovely flower—the greatest garden pictures are those created with the simplest materials—and Nature is still our greatest teacher. Thalictrum dioicum shown above, is only one of hundreds of lovely wild flowers in which I specialize.

Ferns for the Rockery

Ferns are among the most accommodating citizens of the garden. Some enjoy lots of sun, others prefer shade. Here are two collections for different situations:

COLLECTION No. 5
Low Evergreen Ferns for Rockery in Shade

45 STRONG CLUMPS FOR $6.00

- **10 Asplenium ebeneum,** 6 to 15 inches.
- **10 Asplenium Trichomanes,** 3 to 6 inches.
- **10 Camptosorus rhizophyllus,** 4 to 9 inches.
- **10 Polypodium vulgare,** 4 to 10 inches.
- **5 Woodsia obtusa,** 6 to 12 inches.

COLLECTION No. 6
Low Evergreen Ferns for Dry, Rocky Ledge

40 STRONG CLUMPS FOR $5.00

- **10 Asplenium Trichomanes,** 3 to 6 inches.
- **10 Woodsia obtusa,** 6 to 12 inches.
- **10 Polypodium vulgare,** 4 to 10 inches.
- **10 Woodsia ilvensis,** 6 inches.

Other Fern collections for various soils and situations are offered on page 7 of my free catalog.

Lovely Yellow Lady's Slippers

Our native Orchids continue to enjoy immense popularity with gardeners preferring the unusual. Cypripedium pubescens—the large Yellow Lady's Slipper—is one of the easiest to grow and flower. Available in several sizes, as follows, all plants being of extraordinary vigor.

	Each	*5*	*10*	*100*
1 to 2 crown plants...		**$1.50**	**$ 2.75**	**$22.50**
3 to 4 crown plants...		**2.75**	**5.00**	**45.00**
5 to 8 crown plants...	**$1.55**	**7.75**	**15.00**	

Extra heavy clumps, with from 12 to 18 flower crowns, $3.00 each. All prices postpaid.

Guide to Naturalistic Gardens—Free

You'll be surprised to see what a wealth of hardy, native plant materials is available. I have studied ferns and wild flowers all my life and much of my experience is incorporated in this, my free catalog, for which please write.

EDWARD GILLETT
Fern and Flower Farm
3 Main Street, Southwick, Mass.

A Garden Full of Gladioli

The Gladiolus is one of the most satisfactory flowers grown—it is as easy to grow as the potato. Every family can enjoy this grand flower. They bloom from July to frost if you plant a few bulbs each month from April to July.

Special $2.00 Offer

For **Two Dollars** we will send **50 Bulbs** of our **Grand Prize Mixture,** which covers every conceivable shade in the Gladiolus kingdom.

Special $6.00 Offer

100 Choice Named Varieties (*Catalog Price* $9.00)

For those who plan their Garden according to a color scheme, we offer 10 Bulbs each of the following 10 choice varieties:

Evelyn Kirtland, *Rosy pink;* **Flora,** *Finest chrome-yellow;* **Le Marechal Foch,** *Fine salmon-pink;* **Mrs. Frances King,** *Vermilion;* **Mrs. Frank Pendleton,** *Deep salmon;* **Orange Glory,** *Rosy orange;* **Panama,** *Rose-pink;* **Peace,** *Splendid white;* **Schwaben,** *Finest canary-yellow;* **War,** *Deep ox-blood red.*

Order Your Bulbs Now, so as to have them to plant when you begin making your garden.

Simple cultural directions in each package

Mention this advertisement and send Check, Money Order, Cash or Stamps, or call at our store, and secure either one, or both, of these splendid collections, sent prepaid to any point in the U. S. east of the Mississippi. **For points West and Canada add 25c for the $2.00 collection or 50c for the $6.00 collection.**

Our 1926 Spring Seed Annual sent on request

Stumpp & Walter Co
30-32 Barclay St. G. New York City

Like Delicate Sunset Tints the Bloom-Clusters of Rhododendrons Light the Shrubbery Border

Not until you see the wonderful colorings can you realize the daintiness of color and tint—nor sense the gorgeousness of a mass of these colorful blooms.

In the mountains of eastern Pennsylvania, where Rhododendrons and Laurels thrive, we bring these plants to proper size for moving to your grounds. Where soil conditions are friendly, such plants will reward you with a wealth of bloom and color surpassed by no other shrubs.

Our special booklet gives full details of plants, planting and after-care. If you are interested in native broad-leaved Evergreens we shall be glad to send you a copy on request.

La Bars' Rhododendron Nursery
Box 65 Stroudsburg, Penna.

The GARDEN AND HOME BUILDER. April, 1926. Vol. XLIV, No. 2. Published monthly by Doubleday, Page & Co., Garden City, N. Y. Subscription price, $3.00 a year. Entered as second-class matter at Garden City, N. Y., under the Act of Congress, March 3, 1879.

There's a Coldwell mower for every lawn requirement - Hand, Horse, Gasoline, Electric

In the Coldwell Complete Line you will find hand mowers for small lawns, borders and general trimming purposes; horse mowers for large estates where horses are used; gasoline mowers for small and large country places and the electric mower for suburban and town homes—a complete, *dependable* line for each and every lawn requirement.

The Model "L" motor lawn mower and roller (*pictured above*) is the popular estate mower which can be used with or without the detachable gang units. Without the extra units, the Model "L" mows and rolls simultaneously a 25 inch swath. With the units attached, its cutting capacity is increased to 60 inches—making it the widest cutting swath of any power lawn mower built. One man with a Model "L" can completely mow 10 acres a day—on one gallon of gasoline. Simple to operate, economical and dependable.

Write in, giving approximate size of your lawn, or better still, send a photograph of your estate, showing lawn area, and we will be pleased to have our nearest dealer demonstrate the proper Coldwell mower on your lawn.

The Coldwell Electric (*pictured below*) mows as it goes—all the operator has to do is steer it. Plugs in on any garage or house light socket—either alternating or direct current—and uses about as much current as that required for an electric iron. Carries 150 feet of cable on an automatic reel which takes up and pays out the wire as needed, thus keeping it out of the way of the machine and operator.

SINCE 1867

COLDWELL

Dependable Lawn Mowers

Hand · Horse · Gasoline · Electric

COLDWELL LAWN MOWER COMPANY, NEWBURGH, N. Y., U. S. A.

Fill in the coupon below and we will send you detailed booklet on the Electric Lawn Mower.

The Coldwell Electric Lawn Mower

Coldwell Dependable Lawn Mower
Twenty-one Inch Cut
¼ Acre an Hour
General Electric Specially Designed
Universal Motor
Cut Steel Gears Run in Oil
Timken Tapered Roller Bearings

"As easy to operate as a vacuum cleaner"

COLDWELL LAWN MOWER CO.
NEWBURGH, N. Y.

Gentlemen:—
Kindly send me your free booklet which fully describes your new Electric Lawn Mower.

Yours very truly,

Name .....

Address .....

A Flower as Bright as its Months are Dull!

AUGUST and September reveal an astonishing dearth of color in the hardy flower garden. Of course, old faithful Gaillardia, Coreopsis, Heliopsis, and a few others carry on, but on the whole the border represents a monotonous sight. This is, perhaps, the particular reason why one lavender blue flower attracts considerable attention during these months. Its name is

Clematis Davidiana

Not only is the color of its flowers delightfully cheery, but the bright green foliage is of individual beauty. Add to this the element of alluring fragrance and you have the sum total of reasons why visitors love to linger near the beds of C. Davidiana in our nursery. The bell-shaped flowers are borne in clusters, closely disposed around and on top of the leaf joints. The plants grow about 2½ feet tall and bloom continuously during August and September. They also do well in shady places.

Three for $1.50; Dozen, $5.00

This is just one of scores of unusually meritorious hardy flowers offered in our ***Free Catalog for which please write.*** As the "silent salesman" of America's most extensive hardy plant nursery it offers all that's really worth while for the hardy flower border, rockgarden, and old-fashioned flower gardens of all kinds. Your request for the catalog will be appreciated. Please mention Garden & Home Builder.

The Wayside Gardens Co.
Largest Growers of Hardy Plants in America
Mentor, Ohio.
E. H. Schulz, Pres. J. J. Grullemans, Sec., Treas.

The Original Cottage Garden Nurseries are located at Queens Village, L. I.

A visit to this famous nursery during the early spring and summer months is always interesting. Here you will find a choice collection of Conifers, including many of the newer sorts, also Rhododendrons and Japanese Azaleas in the greatest variety.

How to Reach Us: *Our Nurseries are situated on Hillside Avenue, Queens Village, about 3 miles east of Jamaica, easily reached by motor from New York City via Queens Boulevard and Hillside Avenue.*

Cottage Gardens Co., Inc.
Queens Village **Long Island, N. Y.**

Margaret Woodrow Wilson

Dahlias

with a "diploma"

The annual "Field Tests" of the New Jersey Dahlia Society, coöperating with the American Dahlia Society are carried out primarily to prevent the distribution of so-called novelties that are inferior though perhaps different to existing varieties.

Six "F & M" Introductions pass test with high honors

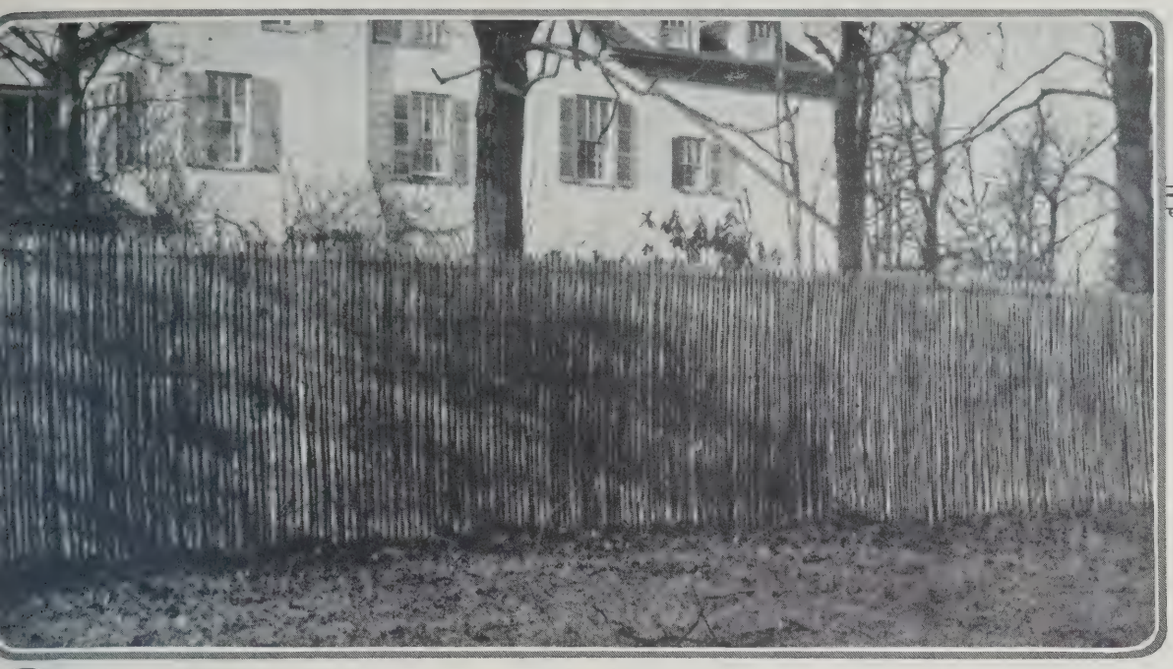
The following F & M varieties passed the 1925 Trials of N. J. Dahlia Soc., the figures after each name denoting score recorded:

	Plants each
Margaret Woodrow Wilson (86) opalescent pink	$5.00
Roman Eagle (89) golden bronze	2.50
F. A. Kent (85) Mallow purple	4.00
Sanhican's Gem (87) old rose and amber	2.50
Sanhican's Magnate (85) white, reverse rhodamine purple	5.00
Trentonian (89) coppery bronze and gold	3.75

The above collection of 6 grand exhibition Dahlias, list value $22.75, sent postpaid for . **$20**
(Field-grown Tubers of above available also)

Our complete catalog of "Gold Medal" Novelties, and all the best of present day Dahlias, the most authentic Dahlia Catalog published, free on request.

FISHER & MASSON
DAHLIA SPECIALISTS
Sanhican Gardens **Box G** **Trenton, N. J.**



The first fence of this type in America. Originally used to prevent trespassing. Now an ideal fence for the home owner who doesn't want to be stared at by every passing motorist!

This fence was erected in 1901 and has never needed repairs —

Over 25 years' service has only mellowed its beauty . . . a significant tribute to Dubois Woven Wood Fence.

TWENTY miles out from New York, at Westbury, Long Island, stands a wooden fence that has an interesting history.

Brought from France and erected over 25 years ago, it has not only withstood the wear and tear of wind and rain, *but has never needed repairs!*

It is Dubois Woven Wood Fence.

Unique Among Fences

No other type of fencing is quite like Dubois. Made of straight, live young chestnut saplings, skillfully bound together, it affords *complete* privacy, and protects from wind and dust. Outsiders cannot see through it.

Imported from France, where its use among owners of large estates and country villas is a cherished tradition, Dubois brings a charming savor to this country of old-world picturesqueness. Yet it blends as harmoniously with any American home as do fine old shade trees, for like them, it is an entirely natural product.

Dubois is exceedingly sturdy and will last a life-time. Easily erected, and requires no paint. Vines cling to it easily. It is by far the least expensive means of screening an estate or garden from the outside world.

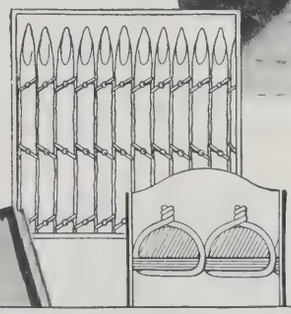
For Country, Suburb or City

Today, Dubois Woven Wood Fence is a familiar sight in metropolitan sections where motor-packed roads have made the need for seclusion so urgent. Its talent for screening service yards or unsightly vistas is also especially appropriate. It has recently been adopted by many city residents who have found it a magic help in transforming neglected backyards into attractive gardens.

Send for New Portfolio

The varied uses and charming effects of Dubois Woven Wood Fence are illustrated in a new portfolio which we will gladly send on request. Just fill the coupon below and mail to Robert C. Reeves Company, 187 Water Street, New York.

Dubois comes in 5 foot sections, in two heights, 4' 11" and 6' 6". Also made up into charming gates, either curved or straight across at top.



The straight, live chestnut saplings are skillfully bound together with strong, non-rusting wire, looped over horizontal cross braces.

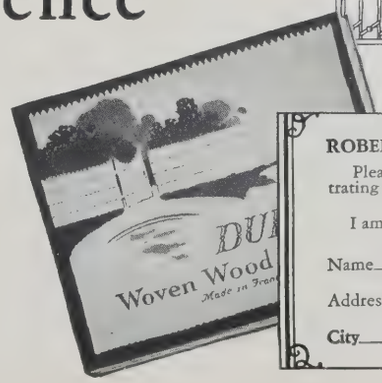
DUBOIS
Woven Wood Fence

Made in France

Robert C. Reeves Company, the largest Wooden Fence distributor in the United States, is headquarters for all types of wooden fencing, from quaint, rustic designs of decorative character to the very heavy hurdle fences for farm use, as well as wire fencing. Among the various domestic and imported fences carried in stock and available for prompt shipment are:

Reeveshire Hurdle Fence *Post and Rail Fence* *Cleft Chestnut Fence*
Portable Post and Rail Fence *English Wattle Fence*

(Descriptive literature and prices of each gladly sent on request. Use the Coupon)



ROBERT C. REEVES CO., 187 Water St., New York

Please send, without obligation, your new portfolio illustrating the many interesting ways *Dubois* is being used.

I am also interested in your _____ (mention any special fencing)

Name_____

Address_____

City_____ State_____ 44

The walls and roofs of this house and garage are stained with Cabot's Creosote Shingle Stains. Harold Doty, Architect, Portland, Oregon.

Permanent Penetrating Pigments

Colors as Deep and Rich as Vegetable Dyes and More Durable than Paints

Cabot's Creosote Shingle Stains

now made with pure colors in colloidal solution—the latest triumph of colloidal chemistry. Colors so fine that they penetrate into the wood and cannot wear off until the wood wears. Will not settle in the cans. Flow on easily and smoothly and quickly, saving labor cost. Anyone can apply them. For shingles, siding and all similar woodwork.

Cabot's Stained Shingles

Standard Red Cedar Shingles Stained with the Standard Stains

It's a waste to stain good shingles with poor stains—they neither preserve the wood nor hold their color. Cabot's stains are guaranteed, and Cabot-stained shingles are sold from staining stations all over the country.

Send for Samples on Wood—of silver-gray, moss-green, wood-brown, etc. Free.

Samuel Cabot
Incorporated

4 Oliver St., Boston, Mass.

342 Madison Ave., New York 5000 Bloomingdale Ave., Chicago

Philadelphia, Kansas City, Minneapolis, Los Angeles, San Francisco, Portland

Other Colloidal Compounds

Cabot's Waterproof Collopakes: Soft texture and pastel-like tints for stucco, brick or wood. More fluid than paints, easier to apply, lower cost.

Cabot's Old Virginia White: The original brilliant white stain. As bright as new whitewash and as durable as paint.

Cabot's Double-White: Whiter than white lead paint, and two coats cover equal to three.

A Garden of 10 Gorgeous Roses $1.

Wonderful offer for Rose-lovers. You can have real Roses like the florist raise for a reasonable amount of money. All strong growers; many colors; richly fragrant.

10 One-Year Roses $1.00

Monthly Bloomers —No words of praise can adequately convey the extreme beauty of this glorious collection of ten selected roses. The vigorous, healthy growth, profuseness of bloom, exquisite colorings and beautiful formation of the flowers make this an unrivalled offer.

10 Two-Year Roses $3.00

Monthly Bloomers—The best bloomers for the garden are included in this collection. Plants are of good size and offer unusual value, having been selected from the best varieties that have come from Europe and America. They embrace all colors, will bloom all summer, and all will be found highly desirable.

10 Three-Year Size Roses $5.00

Monthly Bloomers—In this collection we have grouped together 10 of the finest Hybrid Tea Garden Roses of the three-year size for summer blooming. Not only does the collection represent all colors known in Roses, but shows many beautiful shades and color combinations not found in the ordinary varieties. The collection is of superior merit and especially adapted to our climatic conditions. Each is a perfect gem in its particular color and form.

10—1-yr. Hardy Climbers or 10 Hardy June Roses $1.00
10—2 yr. Hardy Climbers or 10 Hardy June Roses 3.00
10—3 yr. Hardy Climbers or 10 Hardy June Roses 5.00

Catalogue FREE!

All collections will be carefully packed and safe delivery is guaranteed.
Orders booked now for delivery any time up to June 15th.

THE McGREGOR BROS. COMPANY
Box 309 Springfield, Ohio U. S. A.
The Greatest Rose Producing Center in the World

Screen Your Home With "Pearl"

PROTECT your home and the health of your treasures against germ-carrying insects night and day. Keep them out with PEARL WIRE CLOTH.

PEARL WIRE CLOTH is a health as well as a comfort necessity. Due to its metallic coating it is cleanest, most beautiful and most economical—for it is longer lasting.

Buy only the Genuine, which has two Copper wires in the selvage and our red tag on every roll.

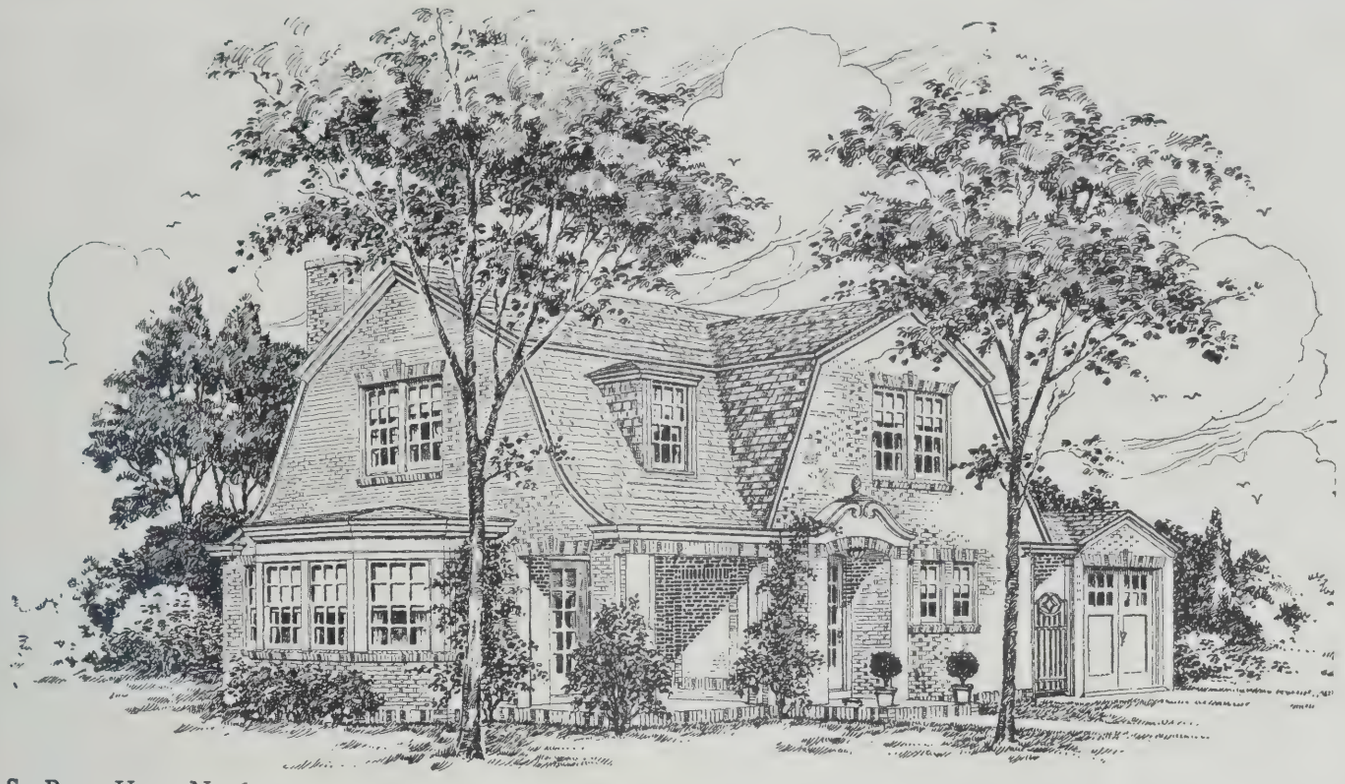
Write our nearest office for samples and descriptive matter.

Address Dept. "G"

The Gilbert & Bennett Mfg. Company

New York Georgetown, Conn. Chicago Kansas City

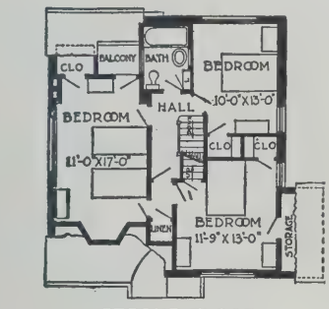
G & B PEARL is made in two weights—regular and extra heavy
The best hardware dealer in your city sells "PEARL"



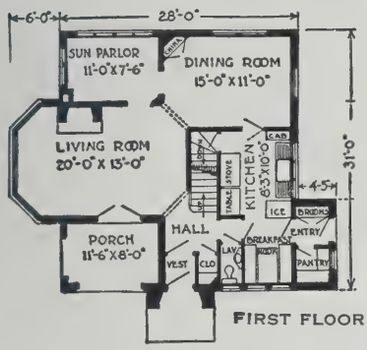
Six-Room House No. 633

Designed for Service Department, American Face Brick Association

This is one of the 120 houses, embracing a wide variety of architectural styles and interior arrangements, shown in our "Face Brick Bungalow and Small House Plans."



SECOND FLOOR



FIRST FLOOR

The Economies of the Face Brick House

THE beauty and charm of the Face Brick house have always excited the admiration of home lovers. But it was not until the public learned about its many economies that Face Brick won its present popularity. Today most home-builders know that slow depreciation, a minimum of upkeep and repairs, painting only around doors and windows, low insurance rates and smaller fuel bills soon wipe out the slight additional cost of the Face Brick house and, in the long run, make it the most economical to own. The facts are fully presented in "The Story of Brick." Sent free.

Send for these booklets:

"The Story of Brick" is an attractive booklet with beautiful illustrations of modern homes, and discusses such matters as Comparative Costs, Basic Requirements in Building, The Extravagance of Cheapness, and kindred subjects. Sent free.

"Face Brick Bungalow and Small House Plans" embrace 120 designs of Face Brick bungalows and small houses. These houses are unusual and distinctive in design, economical to build, and convenient in floor plan. Issued in four booklets, showing 3 to 4-room houses, 5-room houses, 6-room houses, and 7 to 8-room houses. The entire set for one dollar; any one of the books, 25 cents. We can supply complete working drawings at nominal prices.

"The Home of Beauty" contains 50 designs of two-story six-room Face Brick houses, representing a wide variety of architectural styles and interior arrangements, selected from 350 designs submitted in a nation-wide Architectural Competition. Sent for 50 cents. Complete working drawings for these houses at nominal cost.

"The Home Fires," a most attractive fireplace book, with many designs, gives full directions for fireplace construction. Sent for 25 cents.

Address, American Face Brick Association, 1748 Peoples Life Building, Chicago, Illinois.

Legions of Daffodils Invite You!

HERE are a few—just a very few of the thousands awaiting you—nodding and begging to be admired. It won't be hard to lose your heart to scores of these dainty spring beauties and we'll be on hand, delighted to advise and explain. Special invitations mailed to those interested enough to inquire. No obligations whatsoever incur your acceptance of our invitation.

AMERICAN-GROWN BULBS
"In a Class All Their Own"

As already advised last fall, we planted a number of acres of Narcissi here on Long Island, in soil which we found ideally adapted to their culture. The bulbs of some varieties will be larger than the imported ones were, denoting lots of vigor and blooming power. And we are prepared to supply the most popular favorites, in quantities, at prices but little higher than paid last season for imported bulbs.

The Zandbergen Bulb Book FREE

Pronounced by connoisseurs the most accurate bulb catalog published. You'll find every variety correctly classified *where it belongs.* The truthful descriptions attempt to sell every sort on *its own merits!* Devoid of gaudy colors and illustrations you will nevertheless find it a book you'll be proud to place on your library table, to be studied at leisure and handled with pleasure. Your request for this book will be appreciated and please mention this publication.

ZANDBERGEN BROS., *"Tulipdom"*

Oyster Bay, Long Island, New York
Nurseries at Valkenburg, near Leiden, Holland

LUTTON V-BAR GREENHOUSES

Built for GALEN L. STONE, Marion, Mass.

Greater Value for the Money Invested

During the past quarter of a century this company has built many famous greenhouses, and its name is accepted as a guarantee of dependability. Whether the greenhouse be of the rust-proof V-BAR construction or the standard iron frame type, it represents to the owner the greatest value for the money invested; a value not only in the materials used in its construction but in its marvelous productivity and its economical operation.

New illustrated 52-page booklet sent free upon request

ASK A LUTTON OWNER

BVR TRADE MARK REG. U.S. PAT. OFF. GREEN HOUSES PAT. JAN. 2, 1917

Wm. H. LUTTON COMPANY, INC.
265 Kearney Ave., Jersey City, N. J.

Rose Planting Time is Here

And while there are, of course, other Roses, you will some day learn from the most successful Rose growers in your neighborhood that

Peterson Roses

are the best that 20 years of skilled and loving effort can produce.

A copy of

A Little Book About Roses

the best-loved of all Rose catalogs, is yours for the asking. It will help *you* to have the best Roses in your neighborhood this summer.

GEORGE H. PETERSON

Rose and Peony Specialist

BOX 50
FAIR LAWN, NEW JERSEY

Whittall Rugs

The wonder is that Rugs so beautiful can be so durable yet not expensive

WHEN you buy floor coverings wisely you are assured of lasting satisfaction. Lavish expenditures seldom bring adequate returns in actual service. Whittall Rug quality, beauty and durability are not exceeded at any price.

The rug illustrated is a 9′ x 12′ Whittall Anglo Persian, design No. 393, priced at $150, to which your dealer will add transportation charges.

Look for the name "WHITTALL" woven into the back of the rug you buy

Whittall Rug Catalog in colors will be mailed on request

M. J. WHITTALL ASSOCIATES · 180 Brussels Street · WORCESTER, MASS.

The NEW DUCO-PERIOD in FURNITURE

in which the design and materials no longer outlast the Finish

DUPONT DUCO

REG. U.S. PAT. OFF.

Du Pont Duco marks the period of an Enduring Furniture Finish

Constant rubbing and polishing have now given place to simple cleaning . . .

WHEN furniture is finished with Duco no mars are left behind as the penalty of hospitality.

Duco-Period furniture does not require frequent hard polishing . . . just a damp cloth removes every spot and ring and stain.

If your dealer hasn't the particular piece of Duco-finished furniture you want, he can easily secure it for you.

To be sure that the furniture you buy today will live on in its original newness and beauty, look for this mark—

Finished with DUPONT DUCO

This is the sign of genuine DUCO

FURNITURE is finished with genuine du Pont DUCO by many manufacturers; among whom are the following. For information, address E. I. du Pont de Nemours & Co., Inc., Chemical Products Division, Parlin, N. J., Chicago, Ill., San Francisco, Cal., or Everett, Mass.; Flint Paint & Varnish Limited, Toronto, Canada.

Active Furniture Co.
Allegan Furniture Shops
Art Metal Construction Co.
Automatic File & Index Co.
Baker & Company
S. Bent & Bros.
Bentley & Gerwig Furniture Co.
Bradley-Weaver Co.
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DUPONT

There is only ONE Duco — DU PONT Duco

We want YOU to know Schling's Seeds!

Seeds of superb vitality, grown with the most painstaking, scientific care by Master Gardeners for Flower Specialists everywhere!

To acquaint you with their remarkable quality we make the following very timely Special Offers:—

Do You Know This Secret?

Green Peas, and plenty of them, from June to August—if you follow these simple directions. Plant this collection of 6 choice varieties *all at once* this Spring, just as soon as the frost is out of the ground—and they will mature in the order named—producing a steady procession of big, mouth-watering crops from about June 20th till late in August.

The *reason* for this is evident. Peas must develop their roots in cool weather and so are able to supply sufficient moisture to leaf, flower and pod as they rapidly multiply under the summer sun. On the other hand late planted peas are almost always a disappointment, as every experienced gardener knows.

Offer A—Schling's Long Season Pea Collection

1 ***Schling's Pedigree Extra-Early*** 2½ feet. The earliest Pea grown; large, well-filled pods.

2 ***Gradus or Prosperity.*** 3 feet. An early fine wrinkled Pea of delicious flavor.

3 ***Sutton's Excelsior,*** 1½ feet. The most productive dwarf medium-early wrinkled Pea; very sweet.

4 ***Dwarf Champion.*** 2½ feet. An enormous cropper. Broad pods, very sweet.

5 ***Improved Telephone,*** 5 feet. Enormous pods, filled with Peas of the finest quality.

6 ***Heroine,*** 4 feet. Pods are large, deep green, somewhat curved; tender Peas of finest quality.

A1—½ lb. each of all 6 varieties, 3 lbs. in all $1.75

A2—1 lb. each of all 6 varieties, 6 lbs. in all 2.75

A3—2 lbs. each of all 6 varieties, 12 lbs. in all 5.00

For once—*all* the green Peas you want; buy this collection. Delivered free within 300 miles. *Beyond, add 5c per lb. for postage.*

And here are some Delightful Surprises for the Flower Lover—

(*Any variety may be purchased separately as priced*)

Offer B—Novelties of 1926

An $8.95 Value for $7.50

Absolutely New! 16 Beautiful Varieties—that will make your garden the envy of all your friends.

The New Sunshine Aster—The remarkable new single aster with a cushion center and tiny quills of contrasting color. Superb in garden or vase. Illustration shows its form but not its marvelous colors. In 4 separate colors. The collection . . $1.00

New American Carnation Hybrids—The long-stemmed greenhouse type can now be grown in the garden. Blooms in five months from seed. In a delightful variety of new shades from orange to purple . . . . pkt. 1.00

Dwarf Mignon Bedding Dahlia—Most marvelous recent achievement in plant breeding. A true dwarf only 2 feet high. Plants blossom in three months from seed with single flowers of immense size carried on stiff cane stems. Colors in all lovely tints of Autumn . 1.00

New Spencer Sweet Peas, Mary Pickford—A delightful and dainty cream-pink, suffused with salmon. Abundance of four-flowered sprays on long, stout stems . .25

Petunia, Giant Flowered Double Fringed Violet Blue—Heavily frilled of great size. Deep velvety violet blue 1.00

The Alpine Wallflower—Clusters of charming mauve colored fragrant flowers. A prize for the rock garden . .50

Viola Cornuta, G. Wermig—These everblooming garden violets rival the hothouse variety in size and their rich, deep violet, blue color. Borne on long stems . .75

Crepis Barbatus—Tiny golden yellow daisy-like flowers with a well-defined brown eye on neat little bushes only ten inches high. Constantly in bloom 25

Bidens Humulis—Cosmos-like flowers of rich, bright yellow on long stems. June to frost 25

Gaillardia Josephus—Extremely large flowers of vivid salmon-orange color, edged with golden-bronze . . .50

Digitalis, The Shirley—A magnificent new strain of giant foxgloves with 4-foot spikes. Flowers of great size beautifully mottled and frilled 35

Delphinium Cardinale Illumination—Flaming cardinal red on 5 to 6-foot spikes 35

Eschscholtzia Oriental Queen—Expanded flowers 4 inches in diameter. Inside petals pale buff, outside petals rich raspberry red 25

Dwarf Emperor Larkspur, Pink Delight—Ideal for bedding, only 24 inches high. Deep pink . . .25

Verbena Luminosa—Gigantic blooms of luminous flame-pink toning to softer shades of salmon, flesh and coral 25

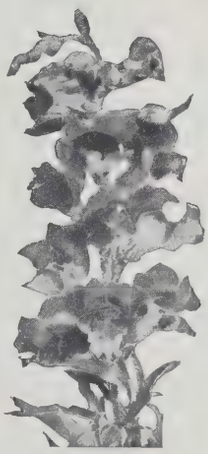
Schling's New Hybrid Iberis—Lovely shades of lavender and pink, delightfully scented. Glorious for rock garden or foreground 1.00

$8.95

Offer C—Schling's New American Snapdragons

A $12.00 Value for $9.00

A New Race of Giant Snapdragons! Rivals the gladiolus in height and vigor. 12 varieties in 12 exquisite and distinct colors. So far superior to all other Snapdragons—there is no comparison. Don't miss them.



Indian Summer—Newest and loveliest of this royal race. Tall flower spikes of a marvelous, velvety copper-red, hitherto unknown in Snapdragons. Indescribably beautiful and hardy from the Yukon to the Gulf . . pkt. 1.00

Golden West—A rich deep golden-yellow with rosy lilac throat 1.00

Pathfinder—Tender rose-pink, with yellow lip and pure white throat 1.00

Yosemite—A splendid lilac-purple . . . 1.00

Navajo—Pure delicate canary-yellow self . 1.00

Seminole—Rosy-lilac, with silky white throat 1.00

Wyoming—Deep carmine-pink, with golden-yellow lip . . . 1.00

Narragansett—Delicate rosy-lilac overlaid with a silvery lustre; rich golden-yellow at center . 1.00

Tenega—(Sunset) Golden-yellow (autumn gold) changing toward the center to a bright terra cotta . . 1.00

Shasta—Lovely pure white, with a fine yellow throat . 1.00

Massasoit—Brownish-orange, tinged with red . . 1.00

Miami—A delightful tender rose-color . . . 1.00

$12.00

And don't overlook these two charming Flower Rarities—

Offer D—Montbretias

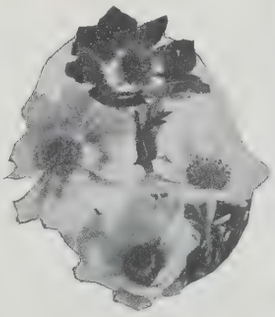
Whose flower clusters in exquisite pastel shades ranging from pale yellow to deep orange, hung like golden stars on long, slender, wiry stems, have all the airy grace of the orchid Odontoglossum. Perfect for indoors and striking in the flower garden when massed in clumps of 25 to 35.

Plant the bulbs in April and May, 3 inches deep and enjoy them all season. Easily grown. 25 Bulbs $3.00; 50 for $5.50; 100 for $10.00.

Offer E—Giant French Poppy Anemones

Marvelous poppy-like flowers in wonderful color combinations. Blues with white bases; Pink with blue bases; cream and apricot shades in endless profusion. Truly a gem of the first water! Plant bulbs in May, 3 inches deep.

25 Bulbs for $3.00, 50 for $5.50, 100 for $10.00



Offer F—100 Glorious Gladioli, $3.75

Choicest Mixture—including all the latest and most beautiful varieties such as the lovely Primulinus or Orchid Gladioli, running a gamut of subtle pastel shades from ivory yellow to an iridescent bronze such as mark the finest nasturtium collections. Start planting April 25th and every 3 weeks thereafter to July 15th and enjoy a long processional of beautiful bloom—

A $7.00 Value for only $3.75, or 50 Bulbs for $2.00

SCHLING'S SPECIAL LAWN GRASS MIXTURE

Cheap grass seed is dear at any price—Consider the time, labor and money involved in plowing, grading, leveling and enriching your lawn—then to get a poor one would be heartbreaking!—This splendid mixture is compounded with the precision of a chemical formula and contains only plump, clean, vigorous seeds of just the right varieties and proportions—it assures a perfect lawn.

1 lb. 86c; 5 lbs. $4.00; 10 lbs. $7.50; 25 lbs. $18.00; 100 lbs. $65.00

Order at the rate of 150 lbs. to the acre

ABSOLUTELY INDISPENSABLE!

Sowrite Seed-Sower

Sows Seeds at a Touch!

Enables the amateur to sow all fine seeds, such as in Offer B and C above with the skill of the professional. Saves time, labor and seeds.

$1 postpaid or 75c with any of above offers

Many other entrancing varieties are fully described in Our "Book for Garden Lovers"—25c the copy—Free with 1st order

PLEASE USE THIS COUPON

Max Schling Seedsmen, Inc.
Madison Ave. at 58th St.
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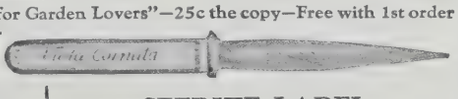
Schling's Seeds

I enclose $_____. Please send me Offer A ☐, B ☐, C ☐, D ☐, E ☐, F ☐, _____lbs. Schling's Lawn Mixture ☐, Sowrite ☐, _____Boxes Seerite Labels, Book for Garden Lovers ☐.

Name_____

Address_____



SEERITE LABEL

At last! A glass enclosed, truly weatherproof label that answers every requirement of *Appearance, Legibility and Permanence.* For seed beds, rose, rock and flower gardens, greenhouse and general outdoor use. **Mailed postpaid, 8 in a box, for $1.00.**

DODSON Bird Houses

Lure the Songbirds

A Beautiful Garden and Lovely Flowers

But—without the birds and birdlings half the pleasure is missing. Birds abide where they feel protection and know they can obtain food and drink without danger of being molested. Under such conditions they raise family after family singing and working the whole day long, ridding the gardens and trees of the injurious moths, beetles, mites, mosquitoes and other flying insect pests that not only annoy you but destroy your beautiful trees, shrubs and flowers. Invariably a Dodson House Placed as directed will get a colony of beautiful Martins and sweet singing Wrens. Bluebirds and Flickers take naturally to Dodson's Scientifically made houses. The beautiful Cardinals, Thrushes and dozens of others of our beautiful Songbirds will seek your garden if the kind of shelter and food they like is provided. Once you know the joy of bird friendship you will regret the years of pleasure missed.

Dodson Scientifically designed and artistic bird houses are a feature in the most beautiful estates, country clubs and parks all over America.

Dodson's Scientific Wren House as shown above

The Silver Throated Wren is one of our sweetest singers. A four compartment house satisfies their habit of changing nests for each of their three broods. Beautiful design, made of oak, finished in green with cypress shingles, copper coping, comes complete with rust-proof snap on hanger Size 28 in. high by 18 in. in diameter. Price. $7.00

Queen Anne Martin House
48 rooms for the beautiful Martins who colonize

Scientific porch, pure white, green trim. Cypress copper roof including 22 ft. easy raising pole. House 36 x 26 x 37 in. price . . . $60.00
Others as low as $18.00

Flicker House

Is a sure lure for these very useful birds. Trees in cities are so well taken care of that Flickers have difficulty in finding homes. They, therefore, take very readily to Dodson's Scientifically Built Houses. Flickers are one of the most useful birds destroying moths, tree pests and principally ants on trees and ground. Many letters have been received stating that ants have mysteriously vanished since these birds have found homes. House 26½ in. high by 12 in. in diameter. Only . . . $7.00

Bluebird House

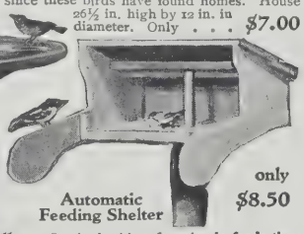
The happiest and most beloved Songsters. Dodson's Scientific houses satisfy these most exacting birds. Made of oak, finished in white and green. Sizes 21 in. high by 16 in. in diameter with 16 ft. easy raising pole.

Price, $14.00

Bird Bath

This handsome stoneware bath is not only an ornament to any garden but is the only one where knowledge of the birds' habits, fears and preferences have been considered in designing a bath that the birds enjoy and use. Complete with 32 in. stand.

Price, $26.00



Automatic Feeding Shelter

only $8.50

Stocked with a few simple foods they crave and Dodson's Suet Cake and Grain Mixture, lures Songsters from the whole neighborhood. Automatically revolves to protect birds from storms. Cypress, finished in white and green. Sizes 24 x 22 x 12 in. including 8 ft. pole $8.50

Dodson's Suet Cake 40c. per pound; Grain Mixture 10c. a pound; Manchurian Sunflower seeds 25c. a pound.

Why Dodson Houses Win the Birds

Mr. Dodson has for many years devoted his entire time to lecturing, visiting beautiful estates in the study of wild birds all over America. Many seemingly insignificant details have been discovered and patented by him that are vital in the luring of Songbirds to man made houses. Mr. Dodson is always willing to talk before clubs or associations interested in creating bird sanctuaries either private or municipal.

A Song Bird Lover for over 40 Years
ACTUAL PHOTO OF
Joseph H. Dodson (The Bird House Man)
PRESIDENT OF THE AMERICAN AUDUBON ASSOCIATION
Making friends with a Black Capped Chickadee at his Kankakee Bird Sanctuary

Write for our big catalog of art stoneware.

Free

My fascinating book "Your Bird Friends and How to Win Them" sent to anyone who loves our beautiful Songbirds. It is full of things you should know. Based on 40 years study of this most interesting subject. Ask about Dodson's Guaranteed Sparrow Trap.

Order direct from this ad. Dodson's Scientifically designed houses can only be bought from:

JOSEPH H. DODSON, Inc.

Mr. Dodson is President of the American Audubon Association

746 Harrison Avenue Kankakee, Ill.

A Real Power Mower for Homes

With the Milbradt Power Mower you can cut four to six acres of grass per day in the open spaces. You can also cut around trees, flower beds and shrubs closer than you can with most hand mowers. Strongly built with plenty of surplus power assures years of good service. Easy to operate. A 12 year old boy can run it. No experience necessary.

Has had three years' experience and is satisfied

Replying to your favor of June 2, will say that I have used one of your power mowers for the past three seasons and it has given me perfect satisfaction. The machine is light and easily handled and is not liable to get out of repair.

The new grinding attachment you furnished for my machine is a great convenience. The knives can be accurately ground by the use of powdered emery and oil, which makes a much more satisfactory job than by filing.

Yours very truly,
J. E. Hamilton, Two Rivers, Wis.

MILBRADT MANUFACTURING COMPANY

2413 N. Tenth Street *(Established 1895)* **St. Louis, Mo.**

Hartmann-Sanders pergola built for G. P. P. Bonnell, Port Chester, N. Y.

Stabilized by Koll Lock-Joint Columns

Overlooking an expanse of crystal clear water, stands the beautiful Hartmann-Sanders pergola shown above.

To insure the lasting beauty of this classical feature, it is stabilized with nationally known Koll Lock-Joint columns.

These architecturally correct columns are the *only* columns with patented lock joints which *cannot come apart*. They are widely specified for outdoor porches, pergolas, entrances and garden equipment.

Send 30c for catalog G-34 filled with garden equipment suggestions. Address Hartmann-Sanders Co., 2164 Elston Ave., Chicago, Ill. Eastern office and showroom 6 E. 39th St., New York City.

When in New York City, visit our enlarged permanent showrooms where a complete line of our products is on display.

HARTMANN-SANDERS

Pergolas
Rose Arbors
Colonial Entrances

KOLL LOCK-JOINT COLUMN
THEY CANNOT COME APART

Garden Equipment and Accessories

You take no chance!

YOU run no risk on Star Roses. They are guaranteed to bloom, or you get your money back. For many years we've been saying to new thousands of rose buyers, "Star Roses make good, or we do."

And, mark you well, we run no risk in this guarantee. Star Roses do bloom! They're sturdy, well-rooted plants, ambitious to thrive and make the world more beautiful by their presence.

This year's "Star Guide to Good Roses" describes these "Star growers" completely — tells you which roses will be the best for your particular place and purpose. 100 interesting pages. 18 roses shown in full color.

To read this year's "Guide" is to know America's best roses. Your "Guide" is ready. Ask for it! It's *FREE!!*

THE CONARD-PYLE CO.

Star Rose Growers, Box 24, West Grove, Pa.

Star Roses bloom, or money refunded

THE CONARD-PYLE COMPANY
West Grove, Pa., Box 24

I am interested in knowing how to choose the right roses for my garden. Please send the "Star Guide to Good Roses."

Name.....

Address.....

Dreer's Surpassing DAHLIAS

If there is one "hobby" that we ride harder than another, it is DAHLIAS! At our Riverton establishment we conduct perhaps, the most extensive Eastern trial grounds of this glorious flower. All good ones are tested. To the best ones only do we hold on. And among those which we judge to be ***"the best all around,"*** we particularly value

Jean Chazot or Gay Paree

This splendid autumn tinted Hybrid Cactus (shown above) is equally valuable as a garden or exhibition variety. The beautiful golden bronze flowers show a faint suffusion of Nasturtium red which adds brilliancy. An early, very prolific bloomer, carrying flowers of good size and substance on long, stiff, wiry stems. $1. each.

Ten *Really Great* Sorts

It is rather difficult to select from the hundreds of varieties we offer such as merit the special attention of fanciers. We therefore offer "The Dreer Ten"—a choice of the choicest in the Decorative and Cactus types. Here they are, with prices for each:—

Bordeau—a brilliant carmine Decorative. $1.50.

Champagne—A Decorative of golden champagne with chamoise shadings. $3.00.

Cigarette—Creamy white edged pomegranate red. The showiest Hybrid Cactus we know. $1.50.

Jean Chazot or Gay Paree—Described in detail and illustrated above. $1.00.

Pride of San Francisco—A great and glorious garden Dahlia of Decorative type. Brilliant golden salmon-pink. $2.00.

Mariposa—A gigantic Hybrid Cactus of a delightful true pink shade. $2.00.

Mrs. Edna Spencer—A lavender-pink English Cactus of great beauty. 75c.

Mrs. I. de Ver Warner—One of the famous Marean Dahlias. Mauve-pink or orchid shade. $1.50.

Picture—A lemon yellow Decorative, tinted buff. $1.00.

Maria Houtman—Glowing salmon Decorative shaded old gold. $1.50.

Special Offer:—One root each of the above Ten Really Great Sorts —a $15.75 value, postpaid, for ***$10.00.***

Dreer's Garden Book for 1926

Eighteen pages of this are devoted to Dahlias, literally hundreds of them, and all good ones! If it's a worthwhile plant, or flower, for garden or home, you are reasonably sure to find it offered in The Dreer Garden Book. Free, of course, and please mention this publication.

HENRY A. DREER

1306 Spring Garden St. Philadelphia, Penna.

BOWERS OF BEAUTY

All told, we grow 25 varieties of Climbing, or Rambler, Roses. As with most other classes of flowers, there are some sorts superior to others in size of flower, distinctiveness of color, or intensity of fragrance. It is a combination of all three of these desirable characteristics that causes us to pronounce, as the "Best of All"

The Lovett Sisters Climbers

Fair creations of that famous hybridizer, Dr. Van Fleet, the three varieties are the aristocrats in their class. All bloom in clusters, with individual flower as large as any Hybrid Tea Rose.

Alida Lovett—a bright, lovely shell-pink that blooms abundantly and is quite fragrant. $1.50 each.

Bess Lovett—a clear bright red of great size, very double, and equally attractive as a bud or wide open flower. Of unrivaled fragrance among climbers. $1.00 each.

Mary Lovett—The finest white climber in cultivation—bar none! Also wonderfully fragrant. $1.00 each.

Special Offer—One strong, field-grown plant of each of above three magnificent Roses for $3.00.

We Will Fill Late Orders With Pot-Grown Plants

During late April and May, when the inborn urge of the Rose plants will assert itself, we generally pot them. Late orders will therefore reach our customers with the plants already in leaf. This applies not only to the Lovett Sisters and other Rambler Roses, but also to everblooming Hybrid Teas. Kindly bear in mind that all plants you receive in pots are the same heavy, field-grown Roses which early in the season are shipped in dormant state.

Catalog No. 117—Gladly Mailed Free

A fine book in Rotogravure and Color, it is a complete guide to all that is good in fruits and flowers for the home garden and estate. We specialize in berry plants, Roses, old-fashioned hardy flowers, and choice Evergreens. Please afford this catalog a further opportunity to acquaint you with our plant resources.

LOVETT'S NURSERY, Box 125, Little Silver, New Jersey

THE MOST UNCOMMON KINDS — Duckham's Hardy Plants — AND MOST GOOD COMMON KINDS

Duckham for Delphiniums

BECAUSE of their most uncommon and delightfully delicate shades, their unique flower formation and gigantic size of spike, Duckham's Delphiniums have found a hearty welcome among the floral aristocrats that make the old-fashioned borders "the wonder spots" of our greatest American gardens.

People are talking about them wherever and whenever "Gardening" becomes a social topic. At leading American Flower Shows.

Duckham's Delphiniums have been awarded Special Medals.

Their merit is acknowledged by the greatest judges.

They have completely upset the accepted standard of **"Delphinium Perfection,"** and created for themselves a leadership in a new class.

***Note*—I am the originator and only source of supply for the true stock of these lovely larkspurs.**

DUCKHAM'S "INIMITABLE MIXED HYBRIDS"

Large field-grown clumps that will flower this year, complete range of colors with many new shades.

Per dozen $11.00; per 100 $85.00

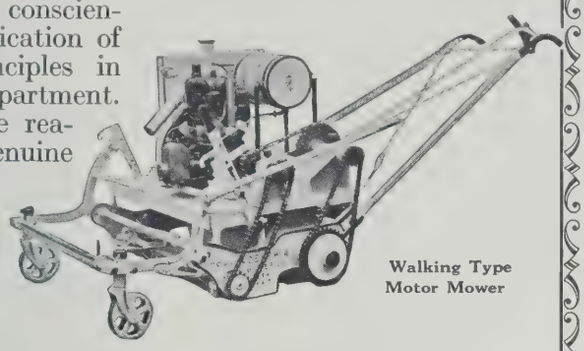
My new catalog, featuring a few spikes of these remarkable flowers in colors, and a very choice list of rare named hybrids,—a select list of Hardy Plants, and choice Garden Roses, mailed free on request.

William C. Duckham
Rose and Hardy Plant Specialist
(Box G) Madison, New Jersey

A distinctive feature of many of the Duckham Hybrid Delphiniums is the huge tapering spike.

Craftsmen Masterpieces!

SINCE 1869 this establishment has adhered to the policy of building only mowers of highest grade material, highest type mechanical construction *plus* a most conscientious application of these principles in every department. That's the reason why genuine Philadelphia mowers deserve the above title.



Walking Type Motor Mower

Walter E. Graham
President.

"Over half a century doing one thing well" is the unique slogan that stamps us *true* specialists. Since the founder of this house invented and introduced the first side-wheel lawn-mower there has been no deviation from the original aim—to make the World's most famous lawn mower—

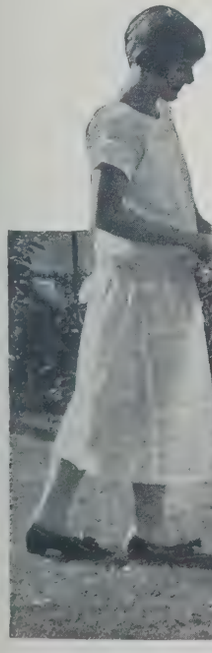
THE GENUINE

"PHILADELPHIA"

3 Styles "Eagle" Motor Mowers
20 Styles Hand Mowers 4 Styles Horse Mowers

Lifetime Service best describes what the best of steel, correct principle of construction and skilled workmanship will give to the owner of a genuine Philadelphia. Ask your dealer and pay the price! One Genuine Philadelphia Mower will outlast, if properly cared for, any 4 ordinary mowers! Figure the difference and picture the pleasure that you'll get out of owning the *finest mechanical tool of its kind in the world!*

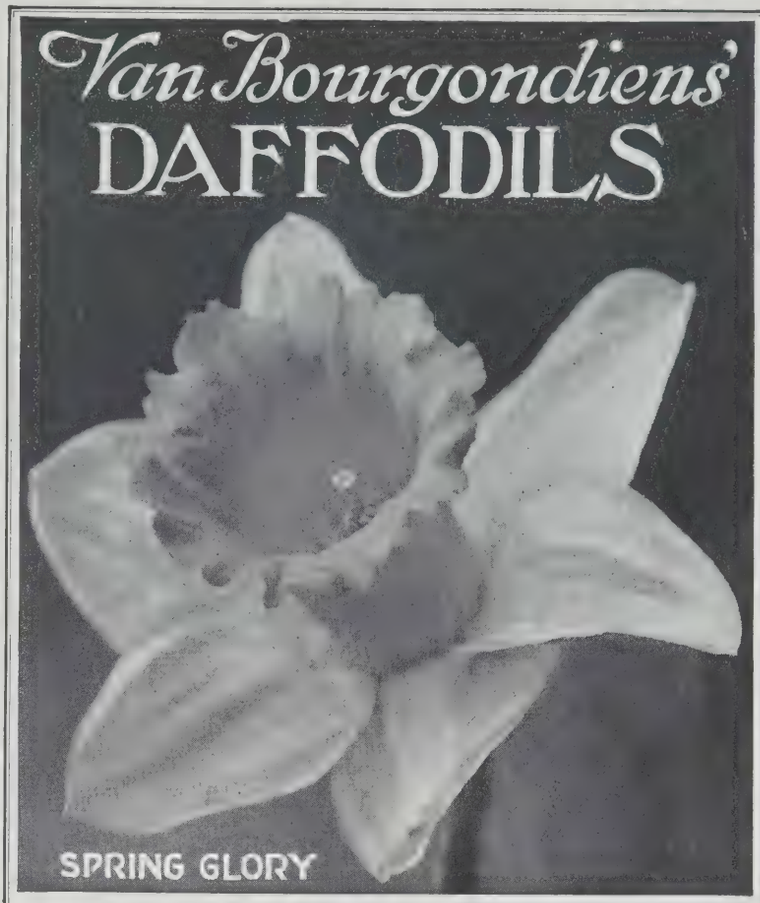
FREE:—Our Catalog No. 25 will gladly be mailed on request. It endeavors to put an end to your lawn mower troubles. If your dealer does not handle the Genuine Philadelphia, write us direct.



THE PHILADELPHIA LAWN MOWER CO.
31st and Chestnut Streets
PHILADELPHIA, PA.

The Original People in the Lawn Mower Business

Van Bourgondiens' DAFFODILS



American Grown Daffodils

After careful consideration we have decided to devote our time and attention to Daffodil bulbs exclusively and to discontinue to handle all Tulips, Hyacinths, Crocuses and other bulbs. Six years ago we chose our present location at Babylon, Long Island, as the most likely section in America to produce good Daffodils. The unequalled number of days of sunshine, sandy soil, and moderate climate caused by the surrounding waters has made Long Island the garden spot of the East.

In 1919 we planted our first Daffodils in our Babylon Nurseries. The results were completely successful. The next year, 1920, we planted more, including a large number of the finer varieties and as a result in 1921 we harvested a crop of Daffodils the equal if not superior in general quality to the very finest crops in our Holland Nurseries. Every year we have increased our plantings until now we have several acres of Daffodils and

The Largest Commercial Collection in America with over 150 Distinct Named Varieties

We are now hybridizing successfully and raising a number of seedling varieties which we will eventually market and we hope and expect this to be a class of Daffodils with a more sturdy constitution than any varieties which have heretofore come from Holland or England.

We have installed a scientific sterilizing apparatus whereby all our Daffodil Bulbs are sterilized and the distribution of diseased bulbs will be obsolete. Inspectors of the United States Department of Agriculture have visited us frequently to assist us in our entomological experiments.

GARDEN & HOME COLLECTION
Our American Grown Bulbs

	PER DOZ.		PER DOZ.
Albatross (Barrii)	$1.75	*Mme. de Graaff* (White Trumpet)	$2.00
Conspicuus (Barrii)	1.75	*Mrs. Langtry* (Leedsii)	1.35
Emperor (Yellow Trumpet)	2.00	*Pheasants Eye* (Poeticus)	1.35
Empress (Bicolor)	2.00	*Sir Watkin* (Incomparabilis)	2.00
Glory (Poeticus)	1.50	*Victoria* (Bicolor)	2.00
Lucifer (Incomparabilis)	1.35	*White Lady* (Leedsii)	1.75

5 bulbs each (60 bulbs) $ 8.00
10 bulbs each (120 bulbs) 15.00
25 bulbs each (300 bulbs) 35.00

OUR DAFFODIL BOOKLET

Will tell you about our acres of Daffodils. Ask for copy, or better still visit our Daffodil fields in late April or early May, when the Daffodils are in bloom.

Van Bourgondien Bros.

Daffodil Specialists

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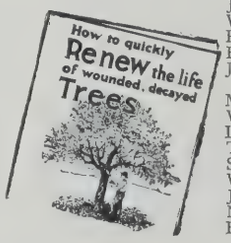

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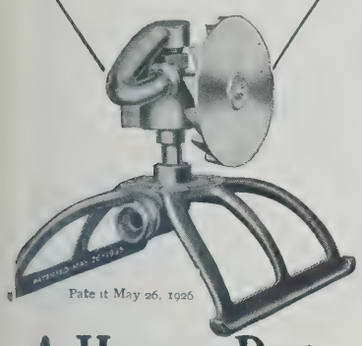

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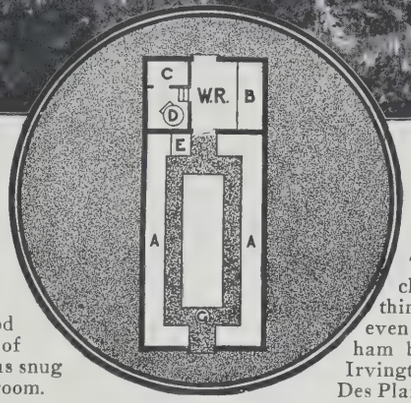

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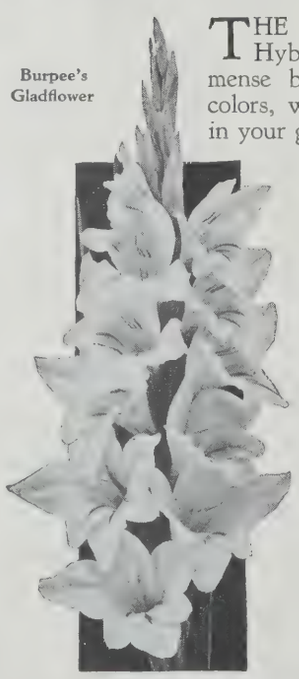

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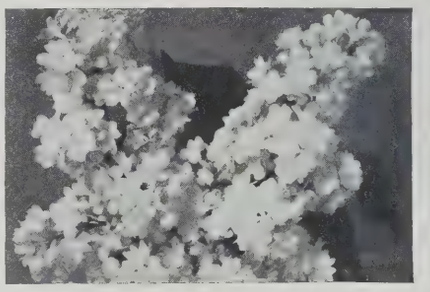

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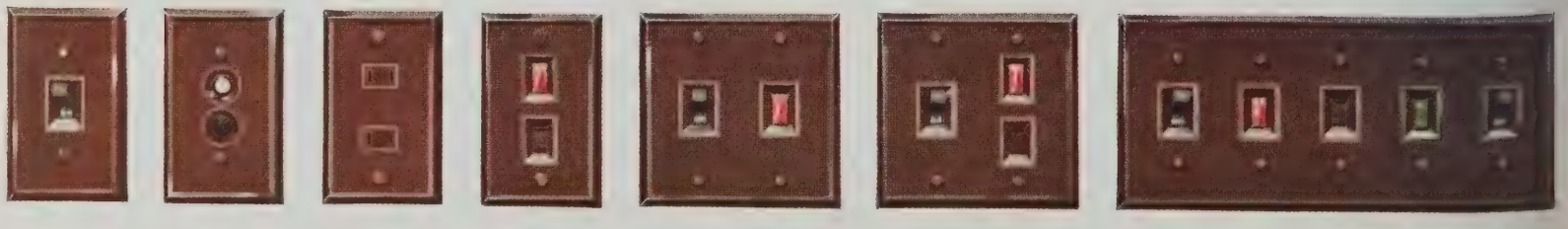

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GARDEN & HOME BUILDER

APRIL, 1926 Volume XLIII, Number 2

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An English Garden in America
An Incubator Propagating Bed
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LEONARD BARRON, Editor *LUCY E. HUBBELL, Associate Editor*

The Forecast for May

THE friendly little one story house that hugs the ground, nesting comfortably in its fringe of flowers and shrubs, has always lent a magic to the bungalow idea, and in May we present specially designed plans and specifications of a five-room one-story house, by Henry H. Saylor, Architect. Comfort, convenience, beauty, and atmosphere are combined in an attractive one-story dwelling, and the plans and specifications may be had for a small sum upon application to the editors.

The garden scheme for this specially designed bungalow has been carefully worked out by Prof. Loutrel W. Briggs of the New York School of Fine and Applied Arts, and it is presented in this issue, with the house plans. The plan is detailed, and adaptable to the average suburban lot; and may even be worked out in a more spacious layout.

"Atmosphere by Wallpaper," by Ellen D. Wangner, shows the importance of a proper background for your furnishings and points out the real psychology in choosing the proper motif for the interior walls of the house. It is fully illustrated and many of the newer papers are shown. Suggestions for color selection and arrangement are made, and the fact that wallpaper is part of the decorative scheme as well as the background is emphasized.

"Color in the Bathroom" is a subject in which every home-maker is interested, and we are offering this month several unusual suggestions for agreeable combinations. "Color and Its Application" by Francis W. Henry deals with this very interesting subject in a more general manner.

FOR the gardener, now that the rush of "spring fever" is subsiding, comes the realization of the first returns, and, of course, the enjoyment of the flowers from the bulbs that were planted in the fall. That will remind the gardener that there are summer bulbs and flower roots to be planted in May or when danger of frost is past. "Garden Earth" is the third in a series of remarkable articles on garden design by Arthur W. Carhart, Landscape Architect, the first, "Garden Skeletons," having appeared in the January issue, and the second, "The Force of Line in Garden Design," in April.

We make a flying trip to the Middle West this May, as usual, and "Horticulture in Oklahoma" by H. Hutchinson, Landscape Architect, and "Gardens of Santa Fe," by Mrs. Burges Johnson, tell of the new and attractive garden spots of that region.

THE demand for color in the home of to-day has spread even to the bathroom. No longer are we satisfied with the hospital-like effect of white tiles. We want greater sanitation than ever, but this must come in cheery colorful notes. In the Hearthstone Editor's Chat for May we shall tell of these new bathrooms where the walls are stained, papered, plastered, or tiled in greens or yellows or rose, where the curtains of waterproof material hold this same gaiety and where even the bathroom closet is a place of color and cheer. Listed with this will be many helpful booklets to tell of new features and appliances—all part of this helpful service which is proving of much practical interest to our readers.

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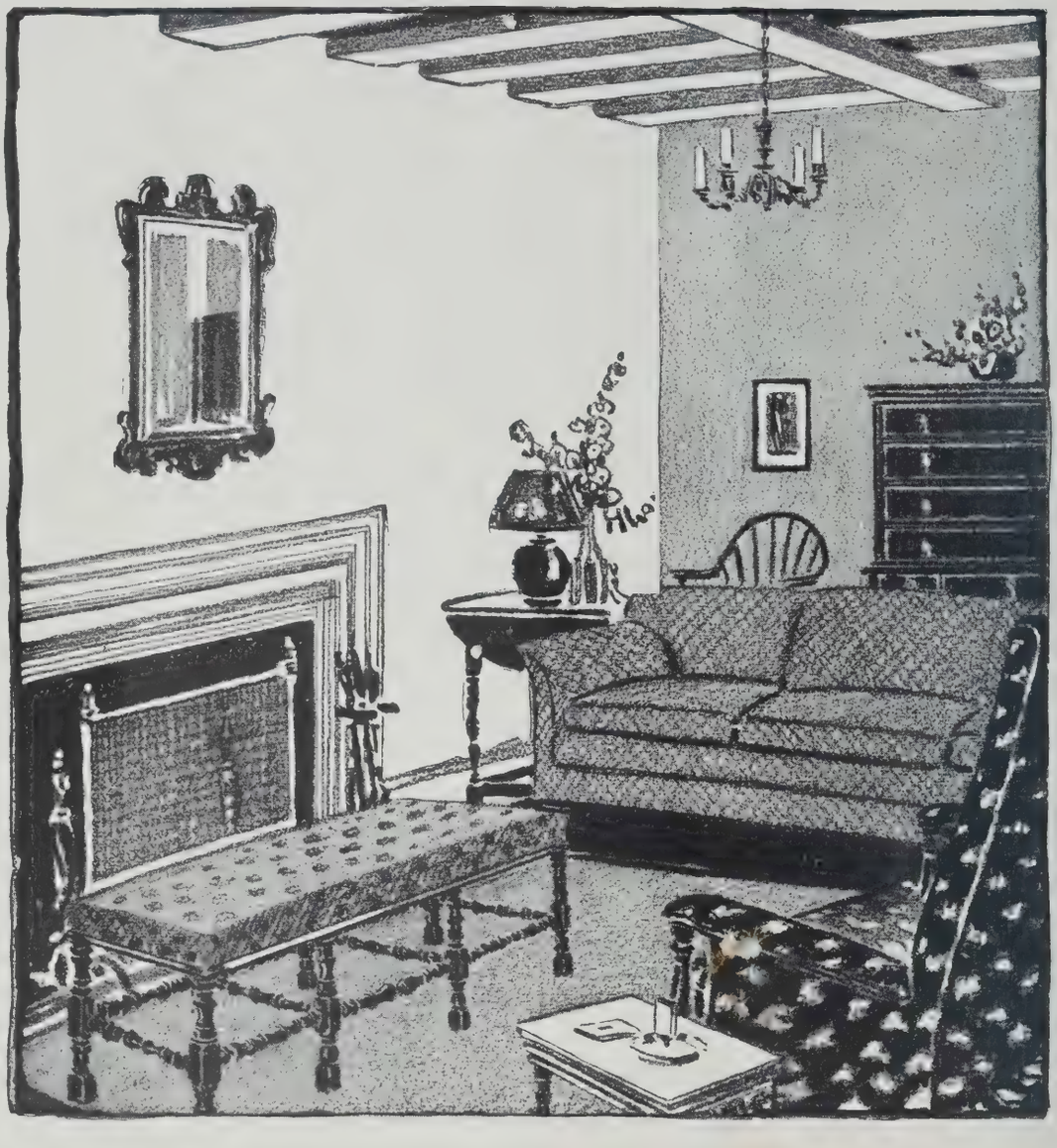


The charm of a well-furnished room is not measured by its cost but rather by the artistic value and appropriateness of its pieces. For example, the furnishings for the living room shown above can be purchased in this establishment at extremely low prices.

W. & J. SLOANE

47TH STREET AND FIFTH AVENUE
NEW YORK

SAN FRANCISCO WASHINGTON

GARDEN & HOME BUILDER

Vol. XLIII, No. II APRIL, 1926

News & Comment

WHAT is it that makes no two homes in all the world alike? Each has a roof, four walls, floors and ceilings, each contains furniture and furnishings. Each, however, holds something else—an unseen quality that gives it an atmosphere and individuality that differentiates it from its fellows. This is the home-maker's personality, her taste and character that can make of the statelist home a gloomy prison or that can turn the simplest room into a place of comfort and charm. The quality of home-making is not strained, neither does it conform to rule nor depend on riches. The very curtains at the windows of a house can tell of this home-making power, the doorway express welcome or chill. If the walls of a house have ears so does the whole house have a tongue that tells in incontrovertible fashion of the tastes of the dwellers within its walls, a taste that requires neither riches nor wide halls for its expression.

A well-chosen picture here, a good chair and table there, lamps with harmonizing shades, a mirror to enhance the apparent size of the room, may often be all that is needed to give this quality of charm to a room and tell to each comer into this home of the home-making qualities of its owner.

THOUGH with but a few pennies in our purse each of us can go adventuring into the markets of the world to make those pennies buy the object beautiful that will lift some room out of the commonplace and tell of our joy in home-making. Never has the limited purse been able to buy greater beauty of design or such variety of material as to-day. Sunfast, fadeless curtains may be had in cretonne as well as damask; furniture may be bought fitted to the bungalow as well as to the mansion and as carefully built; new wallpapers that copy the world's loveliest wall coverings may be had at moderate price to make the old walls take on new beauty. New doors and doorways, new stairs and banisters will change the inconvenient old house into a modern home, while linoleum will bring all the beauty of a new floor to the old worn boards. It is so possible to-day to make our homes express us that the wonder is that so many of them are not permitted to show us at our best, that so often we do not realize the joy of this great adventure called home-making. A serious adventure too is this, albeit a very happy one, happiest in that it centers about our own hearthstone. The aspiring home-maker will find a rich mine of suggestions in the several feature articles in this issue especially. After all there is no greater fun in the world than home-making.

PERSONALITY IN DECORATION

PEOPLE often think that there is such a thing as a "correct" way to decorate homes. To be sure there are conventions which are acceptable here just as they are in good manners but the really interesting home is the one just conventional enough not to be considered "different" or eccentric but frankly personal in a common-sense, agreeable way. Letters which are received by magazines asking advice upon problems of decoration often give very little clue to personal taste. People tell us of their room sizes and draw little plans showing doors with windows, ask what we would do about new draperies, etc., without telling us what they like, what convictions they have and what furnishing the room already contains. Designs and plans are relative. Any answer to these letters has therefore to be of a general nature which perhaps is better after all for individuals will attain far more success if they work out personal solutions to their own problems.

A REAL USE FOR SPANISH MOSS

WHEN we are sitting on overstuffed furniture and automobile seats, little do we consider that the comfort is derived from the Spanish moss (Tillandsia usneoides) which festoons the trees of the South. Such is a fact, however, for within the past few years an enterprising individual found that the Spanish moss made the finest kind of upholstering material. It is now a well established industry. It is springy enough not to pack down; it is more sanitary than other materials, and, furthermore, does not harbor insects. The industry gives employment to thousands in the cypress swamps, and the best moss for some years past has come from Louisiana. A big day's gathering is 1,000 pounds, about the size of a one-horse load of hay. It is piled up, wet, and turned occasionally to insure even heating. The heating rots off the outer covering leaving a thin, wiry, "vegetable hair." It is then dried and carded, or ginned, to take out the sticks and other refuse, when it is ready for market. At present the methods of cleaning are wasteful, there being much loss, but still it is so cheap that no other material can compare with it. From 500 to 700 carloads are shipped out of Louisiana annually, valued at about one and a half million dollars. The industry can be and probably will be doubled within the next three years.

NOT SO BAD AS WAS PAINTED

THE sooner the West gets over its hysteria about the European corn borer the better. It has been over-advertised. It is good news to learn that parasites are taking it in hand and it will probably never be any worse nor cause any more damage than other pests now attacking that crop. We understand that the same parasites that work on the corn ear worm attack the corn borer. This will mean more food for the parasites to work on, therefore more parasites, and as a result less corn ear worm and less corn borer. It may prove that in a way the corn borer will be a help in controlling the corn ear worm, thus sort of paying its way. To the gardener whose Irises, Dahlias, etc., have been threatened this is indeed heartening news.

THE BEST TIME TO PRUNE

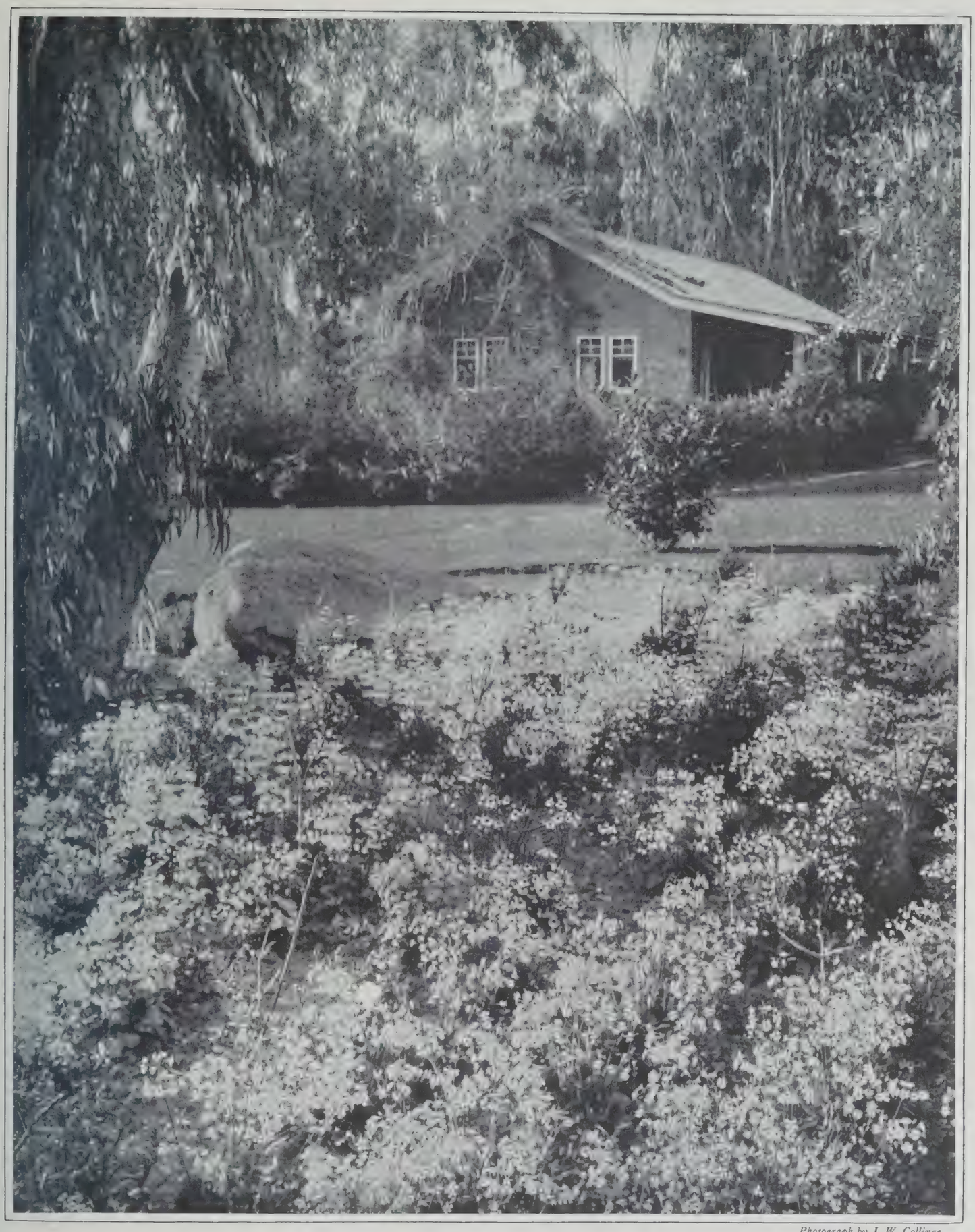
THE time-honored saw of the old gardener that the best time to prune is when the knife is sharp receives technical justification as the result of experiments and observations conducted over the last eight years by the New York State Experiment Station. So many of these old adages find re-justification in fact that one may wonder how it comes about that the sum total of human experience seems likely to point in the right direction even though it doesn't look logical on the face of it. Here we have the experts of the State of New York watching the effects of summer versus winter pruning over a long period to arrive at a conclusion as to which is the better. We find the answer is that it doesn't matter. There may be practical advantages one way or the other according to circumstances of the individual. For instance, winter pruning when the foliage is off the trees is easier in a mechanical way—you haven't got the load of foliage to worry about and each branch can be clearly seen. Then there is the further advantage that so many other things have to be done during the growing period that anything that can be done in the wintertime is an actual gain. But the practical standpoint has been demonstrated that the best time to prune is when it is most convenient for the pruner.

Photograph by A. Sturtevant

LAS TEJAS—THE WINTER GARDEN OF MRS. OAKLEIGH THORNE

This semi-formal garden, with its cascades of water in circular basins which empty one into the other down the long slope, is bordered by clipped Bermuda Juniper and back of the formal hedges are rows of Orange trees. The color scheme is blue and yellow

The Garden Club of America holds its 13th annual convention in Santa Barbara, Cal., this month. The Eastern delegates travel by a special train. We have pleasure in presenting in this number a remarkable collection of views of some of the beautiful gardens of this district *(see pages 137-138, also pages 154-155)*



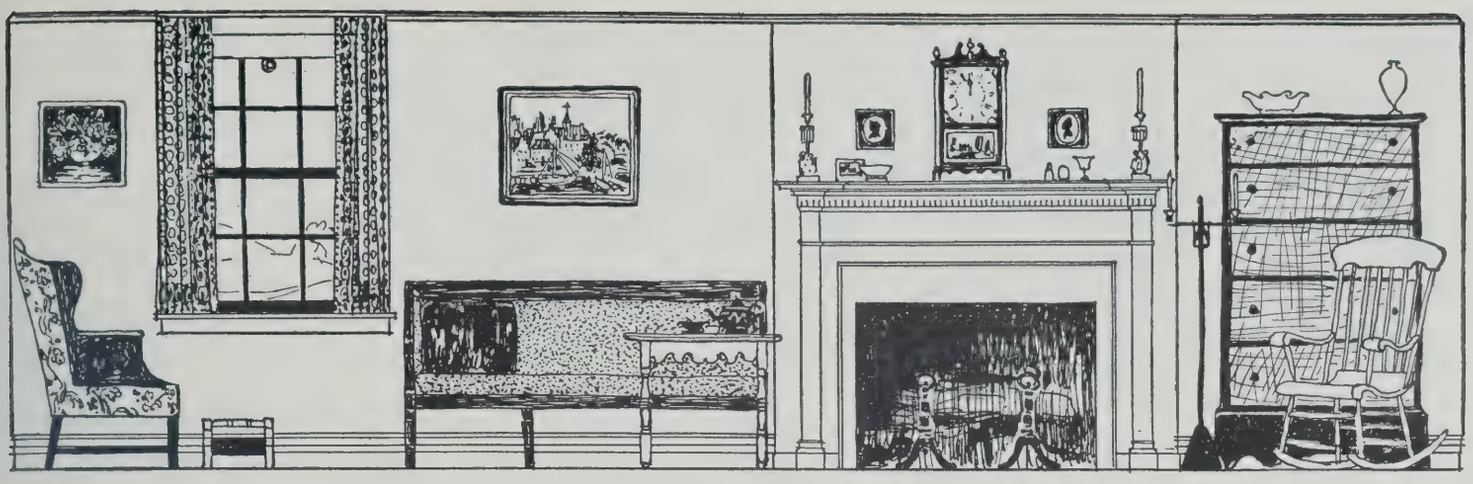
Photograph by J. W. Collinge

One of the bungalow cottages at El Encanto, hardly our idea of the conventional hotel, with its detached bungalows in rich garden settings. Here we have a mass of Primula in flower in the foreground, the whole thing being framed by luxuriant Eucalyptus

Photograph by J. W. Collinge

LINDA QUESTA—THE GARDEN OF MRS. E. PALMER GAVIT

"Starry buds and floating Lilies, broad and bright"—a garden of rare exotic plants. Palms and Aloes, Olives, Pines, Dracenas and Cordylines grow together, and the shelter of the hillside makes a climate suited for experimentation where many unusual plants are grown



I—Wall in the room of a family of moderate income, where wit and ingenuity are employed to supplement a limited pocketbook (see page 141)

ELEMENTS OF DECORATION

Thoughts Upon the Problems of Young People About to Furnish a Home

By
RUTH R. TREGENZA

Drawings by the Author. Photographs by Mattie Edwards Hewitt

Banjo clock, folding table used as a console, plain rugs and artistically planned staircase give to this hallway a true sense of welcome

WHAT ideas or plans for furnishing the small home could be suggested to young people just starting out with this problem? Could there be any one answer given to this question which would be universally applicable? Decidedly not. Even to attempt to give one, laying down laws for the so-called "correct thing" and ruling as to the cost, material, and art of other people's furnishing would be to subject oneself to innumerable protests and objections. For, of course people must have in their homes what *they* want, what is suitable and satisfying to them, and what they can pay for or make, and in these respects we all have different needs and potentialities.

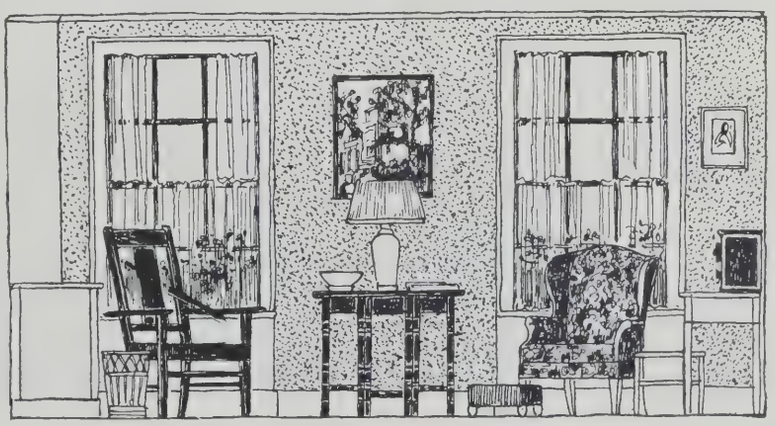
In working out any helpful suggestions, therefore, each one must first study his problem as an individual one and see that it can only be really successfully solved if he carries it through himself. To be sure he must seek advice and be open to ideas and stimulation from others but he must reserve to himself the right to make his own decisions. Fortunately, everyone has some taste to build upon and by constant exercise it becomes a reliable and delightful faculty.

Start by considering what you really do want in your home and what you wish it to express to the world as to your taste and good judgment. This is not easy and perhaps it would be better to ask what kind of persons are you, with your tastes and habits and inherited instincts, your social interests, your income and expectations, your education and ideals? Have you already any furnishings or precious possessions from which to gain a clue to a scheme or is there any outstanding type you especially admire? In short, what furnishings would be useful and suitable for you and make a harmonious becoming background for your kind of living?

All this is only by way of beginning some plan, realizing that you can't decide everything at once and keeping your scheme flexible enough to allow for a change and growth in your ideas and understanding. Fine judgment in art-quality must be the result of many choices and culture can hardly be attained without the mellowing of years.

WE SEEM to progress through different stages of evolution, from the first—utility, with whatever beauty is possible; to the second; comfort and ease arising from mastery of material things with growing art appreciation; to the third—art and the expression of personality with distinction and style. Naturally, there are far more people in the first two stages and their intermediates than in the third class which always seems to keep ahead of us stimulating our efforts as we advance by holding up higher and higher ideals.

In this brief article let us give all our attention to the element of good looks. The smaller sketches here presented (A, B and C, page 141) have been made to show that outlines and tone can convey to us considerable expression of type and that there may be beauty at every



II—Living-dining room of a couple of the small income group

The simple furnishings of this room, the low ceiling, and the sprightly wallpaper are charmingly reminiscent of an early New England home

stage. Indeed the question of cost fortunately is, in interior decoration, not all important for though we must have *some* resources nevertheless the most expensive scheme is frequently not the best artistically. The three smaller drawings (page 141) have been designed for the same room and in the first is expressed the utilitarian solution, in the second, the formal and costly; and in the third, the cozy with cheeriness in style. As a large room would be impractical for people who are economizing both in space and furnishings, it must be used for all living purposes, and its daybed, gateleg table, chiffonier and secretary with curtained doors must be put to several uses. The pieces though plain and inexpensive are interesting in shape and color, and charm has been attained by grouping the articles, giving a sense of spaciousness in a necessarily rather crowded room. Pattern and gaiety are supplied by the cretonne at the windows and some smaller articles. The second room where higher ceiling and formal effect of panelled walls is desired, long curtains and fitted valance expresses richness and dignity through the symmetrical placing of furnishing and pattern. In the third, curving line, "busy" patterned wallpaper, low chairs and small scaled furniture make us feel informality, cheer, and hospitality.

TO CARRY forward our types and their possible expression in furniture and decoration suppose we dramatize three imaginary young couples and develop schemes for them along three different lines. To begin with; in illustration II (page 139), the living room of the small income couple is in a moderate priced apartment house. They are renting three rooms, kitchen, bedroom and living-dining room. The house is in good repair, reasonably lighted and painted throughout in light tan with oak woodwork. There was no furniture to begin with and it was resolved to buy absolutely necessary things at the lowest possible prices, thinking of it as possibly a temporary installation. In the living room much effort was spent to attain as much beauty as possible without spending money. Book shelves were put up, unfinished furniture was painted and home made upholstery attempted in the small cretonne wing chair. The simplest voile curtains were hung inside the window trim giving privacy and daintiness yet sheer enough to show Geraniums in flower boxes outside. These with the cretonne on the chair and the color print in black enamel frame on the wall, bookbindings and a few small objects supply the only pattern interest, enough, however, to relieve the plainness of simple square angles and lines and hard finished wall surfaces. The color is quiet and agreeable, background about middle value tan, close in color to the woodwork, curtains creamy white, furniture oak or painted strongly contrasting black with red, white and gay variegated bits in the cretonne. The room is tidy, well ordered, dignified and cheerful and expresses, truthfully, the young people who own it—telling us that they *are* young, doing the best they can with their present resources, that they have made no false choices, pretentious and shoddy, that they are living in comfort and good cheer and will be able to adjust themselves to larger and more luxurious surroundings if called upon to do so.

IN THE picture on page 141, illustration III, is represented the rather elaborate apartment of young people modern and somewhat conventional. Living in their home town as they do with many prosperous friends about them social life is an important factor and, although they have only one large room for both living and dining, the many expensive wedding presents and the general scale of living they were used to at home induces a formal and somewhat rich scheme of decoration. The apartment is modern and well finished with good mouldings and panelled, painted walls. The large window seems to demand fine material, the over drapery being of damask and the glass curtains of silk gauze. The shaped valance, professionally made, hangs from a small cornice board conforming to the style of the room. The emphasis in this room is upon comfort, hospitality, fine and luxurious materials and "modishness." This whole scheme may change as income increases and fashion demands, for each piece is good in itself and could conform to new arrangement. The greatest expense is in the upholstery and cur-

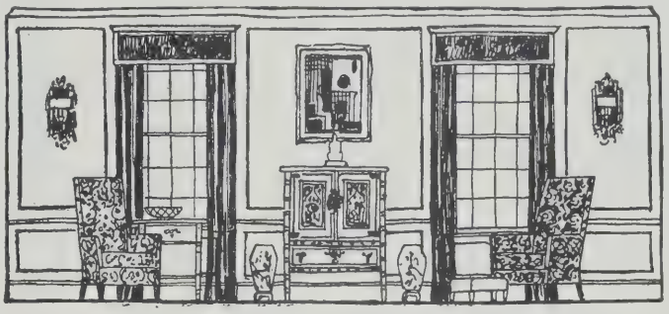
The charm of this restful room lies not only in its simple furnishings but in the very interesting wallpaper and woodwork

tain material which by their very nature would need to be renewed in time. Again, the room truly illustrates the standards and tastes of its occupants. Curved lines and silken, glossy textures, light, soft colors and a moderate amount of good gilding all lend their charms.

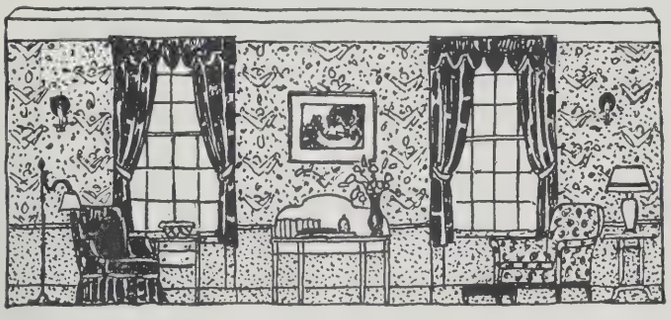
THE drawing, illustration I page 139 shows one wall in the room of a family of moderate income, of the scholarly professional class where wit and ingenuity are employed to supplement a limited pocket book. The apartment chosen is in a made-over house unconventionally irregular in line but inexpensive and with practical advantages of light, convenience, and the "atmosphere" of an old-fashioned neighborhood. Several old pieces of furniture determined the scheme to be early American with modifications. The low ceiling and high windows call for simplicity of curtains, the choice being gay cotton, India printed and thinly lined to let light shine through. The good old fireplace worthy to dominate the scheme offers a setting for the clock, candles and small curios and some fire accessories. Back of the Boston rocker a high chest of drawers refinished in dull red and black warms up the gray color of the walls while providing valuable storage space. The old mahogany sofa reupholstered in plain dull green mohair velour and the one winged chair covered with linen, crewel embroidered, a hooked and two braided rugs give soft and faded color. A small maple stand with blue and white tea service is about the only other bright note except for small bits here and there. The fine old print on the wall is sober in monotone, a piano, bookcases, and some willow chairs, with two small side chairs complete the furnishing. The general effect of the room is charming of tone, mellow, rather dull and faded but not lifeless nor "elderly." We feel the effect of good ancestry back of these young people, respect for the past, yet full appreciation of modern living comforts and charms. Not a great deal has been actually spent but there is a subtle elegance as a result of wise choices. The square line is dominant, though softened by enough of the curved. Pattern is here in small judiciously arranged areas, tone is definite and crisp in part but in general soft, while color again has crisp and brilliant notes but in the main mellow, warm, and faded. Texture is the unifying element; texture of old worn surfaces of wood, carried out in soft stippled glossy wallpaper; sheen of small sparkling pattern on fine cotton curtains, glass, china, and polished steel fittings, painted floor and contrasting wool rugs, all speaking of age and careful use, subtle and imaginative, restful and becoming to the serious happy young couple who have created it.

One of these three types outlined will be nearer to your needs than the others and, if you recognize that, it will furnish you with a clue to your own start, remembering that line, color and tone with texture, scale and style, the amount of pattern and its distribution, some empty spaces and some concentration all offer you means of expression fascinating to develop. Perhaps, indeed, one young couple might go through all three of these stages, starting most simply, gaining time to study out tastes and buy wisely, then going through the luxurious stage and finally arriving at a style, still luxurious, if you like, but with personality expressed in choices.

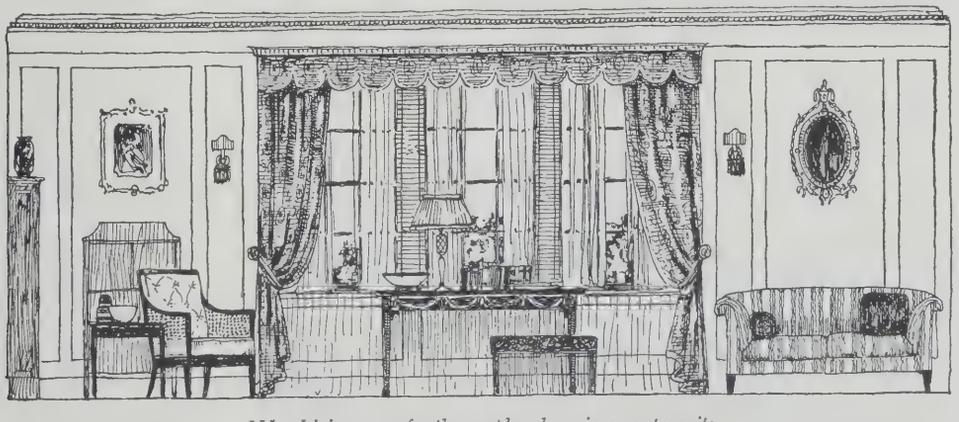
A—The "utilitarian solution," economizing in space and furnishings (for details of these three furnishing plans see page 140)



B—The "formal and costly" solution, with formal symmetry



C—The "cosy with cheeriness" solution, treated with informal balance



III—Living room for the couple whose income permits a more elaborate style of decoration (see page 140)

A friendly sense of welcome is expressed in this entrance, so reminiscent of early Colonial days and ways. This doorway as well as the one on the right may be built to order to fit the needs of any house

READY-BUILT

ELLEN D. WANGNER

Beautiful Doors and Doorways That Give Just the Right Note to the Entranceway —Space-saving Units Bringing Added Beauty and Efficiency to the Whole House

No part of the home is more important than its front doorway. Such a door as this with its fineness of detail and carving brings both dignity and beauty to any house of Colonial design

Photographs by courtesy of Wasmuth-Endicott Co., Hartmann-Sanders Co., The White Door Bed Co., Curtis Co., Standard Textile Mfrs. Assn., Hoosier Mfg. Co., Concealed Bed Corp.

THE day has passed when a woman could be named Charity, Patience, or Submit and be expected to live up to the spirit of the name by enduring whatever house and home conditions might be her lot! Those names would be misnomers to-day for the present-day home-maker has broadened her vision as well as her definition of the word "home." Actually to turn a mere house into a home, she must have leisure from as much as possible of the one-time drudgery of housework and her home must be as pleasant as modern skill can make it. Not for her the huge kitchens and lack of conveniences; not for her the unattractive rooms, the small forbidding doorways, the lack of sunshine and pleasant verandas!

Coincident with her awakening have come national conditions that have remade the old world of Patience and Charity. The large house is going—gone—because of scarcity of servants, high cost of fuel for heating the big rooms, the increasing need of compact houses in small space. This has brought a demand not alone for labor savers but for space-savers, for equipment that will serve a two-fold utilitarian purpose as well as holding the qualities of beauty and durability.

Where a division is desired, but a wall is impractical, these ready-to-install cupboards answer the twofold purpose of dividing the room and proving ornamental as well

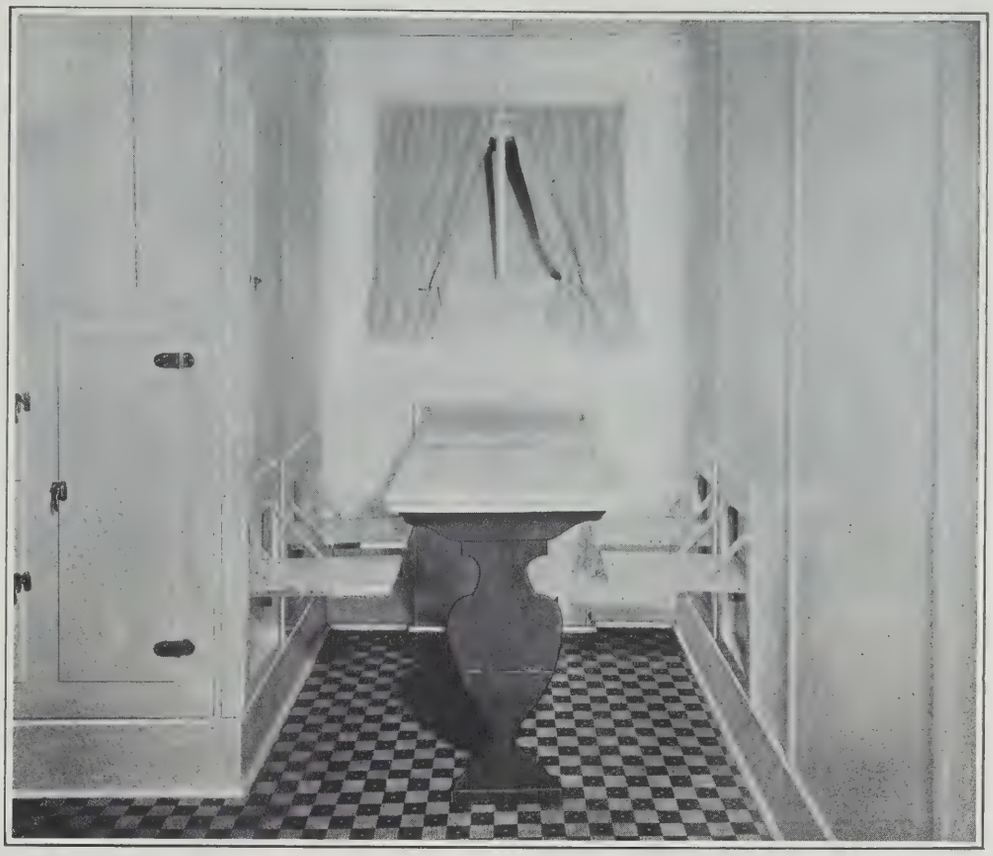
The apartment house must give as much beauty and serviceability as possible in each suite of rooms, since the home standards of even the simplest family have grown as the floor space has contracted. The most inexpensive suburban home to-day must be as well-equipped and as attractive in its small way as the mansion, and its equipment must be as carefully thought out.

To meet this need, both indoors and out, many ready-built features are now being manufactured ready for installation. This is as easily done in an old house as in the new one. To-day, ready-made stairs and stairways, new doors and casements may be had to match any kind of wood or style of house and, we would add, to equal in workmanship that of the old painstaking workmen. Or one may purchase carefully designed mantels to fit any period of room or furnishings, while bookcases and china closets will be made on order.

BUILT-IN furniture gives to even the simplest little room a dignified character that can be produced by nothing else. It brings a sense of permanency, a feeling that *this* home is built to endure through generations, which no movable furniture, no matter how costly or well-chosen can convey. Built-in furniture becomes part of the woodwork of the house and woodwork, as we are more and more coming to realize, is about the most important detail in either finishing or furnishing.

It is the note that carries throughout the whole song-of-the-house, making it either a discord or a harmony. Woodwork is not moved about at whim of fashion or desire for change. We may vary our draperies, furniture, wall coverings, but the woodwork looks on unmoved; the rest may go but it remains, and this quality is held in the built-in pieces most of all.

Nothing can add greater character to a room than to install here and there one or more of these pieces that come in the best of materials, design, and finish. One of the most satisfying of these ready-builts is the corner cupboard for the dining room. Because of the necessary monotony of dining room furniture a little individuality in the room itself affords a pleasing relief. Fortunately the beauty of these corner cupboards of Colonial days is being increasingly appreciated. Even the dullest, staidest dining room achieves charm and friendliness when one is added to it. These, ready to install, may now be had either with a flat back to set into the wall and flush with it, or with a triangular back section to set across a corner. Where a pair of these cross-corner cupboards is placed in a dining room, that room ceases at once to be commonplace. It takes on an air that is further augmented by the gay china on the shelves. Furthermore such cupboards as these release shelf space in pantry or kitchen.



The maximum saving of space is exemplified in the breakfast nook. The seats slide up into the paneled walls; the table folds up also, and disappears into the walls; while at the left there are closets for brooms and built-in ironing boards, as shown in the illustration below at left

ANOTHER desirable space-saver is the built-in bed. These in full or twin bed size are fastened to revolving wall panels, to doors or fitted to closet space so that they can be pushed absolutely out of the room and out of sight. These beds differ from the folding-bed of other days; they are actually only well-designed, comfortable beds which, because of special construction, can be easily put out of the way. This is done in such fashion that the under side of the springs and mattress can be cleaned daily if desired with the vacuum cleaner and the mattress and bedclothes are kept in place on the bed by strong steel fingers.

These beds can be fitted in an old house and come in every type and finish. What delight to be able to shove a bed into the wall and have a clear space for sewing! What a happy place the nursery can be that has the whole floor left for play! And what relief for the dweller in the small apartment or bungalow when the unexpected guest arrives to know that the walls will disgorge an extra and restful sleeping place!

Here the seats and table in the upper illustration are shown folded and out of the way, and the well supported ironing board pulled out ready for use

In considering our house, we often accept the front door "as is." While we may not like it, we feel that we must endure it since even the village carpenter demands a king's ransom by the day. Once we required the combined services of a builder or architect and carpenter to help us change an objectionable entranceway. To-day we can buy front doors, doorways, porches, colonial columns made to the special measurements of our own doorways and style of our house, effecting just that improvement that will lend an entirely new aspect to the outside of our home.

The portal of any house marks the dividing line between the outside world and the cheer and friendly atmosphere of the interior. Someone has said that the door is the mouth in the face of the house. It can either bespeak a friendly graciousness, a warmth of welcome or it can belie its owner. A door can so easily be made a most pleasing feature of the house by slight and comparatively inexpensive alterations with the aid of these ready-to-install pieces of equipment. These doorways of the highest type of design and finish are especially designed to order to fit any house, whether old or new. This is true also of the interlocking columns that can bring to any house the same dignity and sense of repose that we find in those doorways that opened hospitably wide in Colonial days. Stock patterns are not of necessity used in either doors or columns, all work being actually especially designed so that a particular type of house can have its entrance built to harmonize.

IT IS for the kitchen of to-day, naturally, that the greatest number of ready-built features and permanent furniture have been devised. These cover such necessary features as ironing boards, refrigerators, broom closet, kitchen cabinet (built to include

Where space is not quite so limited, and the furniture of the breakfast nook may be kept in place, these sturdy seats and table will be found so well built and furnished as to fittingly blend with the most elaborate dining furniture

The built in cupboards in this kitchen, where the walls are covered with a washable fabric, make it a most pleasing as well as efficient workshop

ings rob kitchen work of much of its unplea antness. Even the well-known kitchen cal inets, or "kitchen suites" as they are no called since they include so many varied unit may be had in color. Could anything b more pleasing than such furniture in two ton of gray decorated in blue, with a combinatio of plain blue and tan walls and a touch orange in curtains and linoleum? Gaily enam eled, this combined kitchen cabinet, wor table, broom and storage closet ceases to b merely part of necessary kitchen tools and b comes instead a highly ornamental piece furniture.

The best feature of these various units that they will provide cupboard space whe it is needed. If because of faulty plannin when the house was built, the only place f mops and brooms be down two or three step to the cellar landing, a broom closet may b had narrow enough to fit a very small spac yet large enough to hold vacuum cleane broom and floor mops, with adjustable shelve

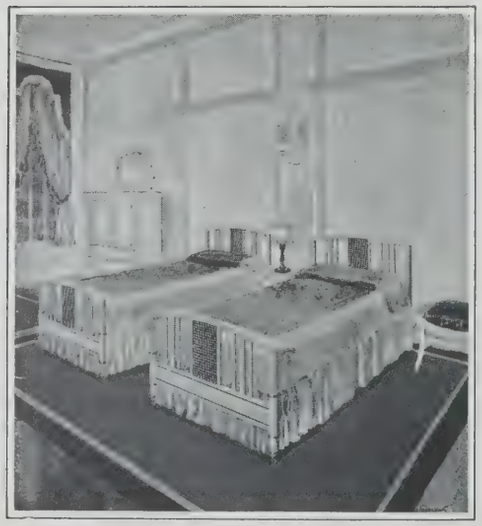
(*Continued on page 186*)

The modern kitchen cabinet is no longer only in white enamel. This is done in gray with dark blue motifs. In addition to all the well known pieces of equipment this cabinet also contains broom and china closets

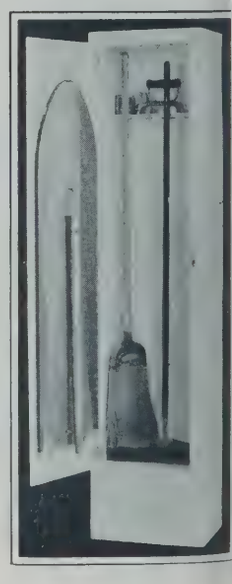
Nothing could make kitchen work quite so easy and pleasant as this built in cabinet, that not only has ample storage and dish space but holds a sink as well

a sink), china and storage closets and even breakfast nooks having chairs and tables that can hinge back against the wall if desired or that will slide into the walls like panels. Many of these pieces of kitchen furnishings have been made in the form of units, that will all fit together along one wall space or can be used separately. Some of these are of enameled steel, others of wood with door and drawers guaranteed not to warp. All are the result of careful study of actual kitchen needs and each not only makes for efficiency but for beauty as well. This scientific use of space and the resultant conservation of human energy solves many present-day housekeeping problems. They do still more! Like the attractive doorways, they lend added money value to the house. The housewife of to-day demands these, realizing that both her time and health must be saved if she is to enjoy life herself and give the best of herself to life.

Many of these new kitchen units have swung into line in the matter of color, for the white kitchen is no longer the only one to be desired. Cheer, color, sparkle in equipment and furnish-



Fastened securely to paneled walls, these well built beds disappear as if by magic, when the wall panel swings

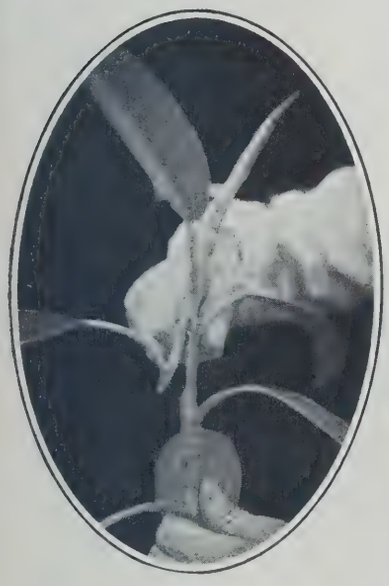


Ready to be set up in any odd corner or small space is this utility closet that holds brooms, floor mop, and ironing board

1. Make a clean incision halt way through

7. The old plant will in due season throw out side branches and become bushy

4. Bind more moss and wait until roots appear



2. Then upwards

TOPPING The Too-Tall RUBBER PLANT

It really amounts to rooting the top by the cutting method before it is finally severed from the old plant. Now is the time of the year to do it.

5. Then remove the moss and sever

3. Bind in some sphagnum moss

When the old Rubber Plant becomes too long and lanky it can be topped so as to make a new young individual

6. And start the new plant independently

There will be noticed some minor deviations from the plan, such as the stone corner piers for the porch

"Their leaves are alive with the breath of the earth,
They shelter the dwellings of man"
Henry van Dyke

Residence

of

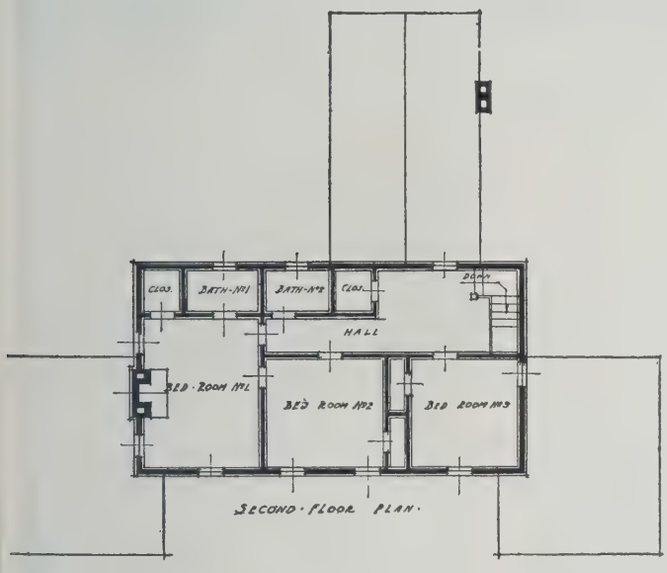
Mr. Charles I. Barber

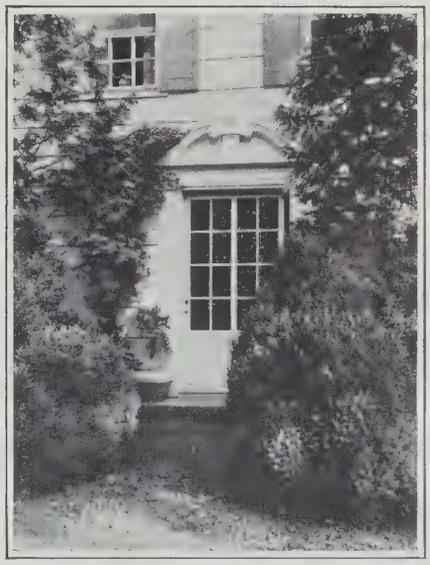
Knoxville, Tennessee

Barber & McMurry

Architects

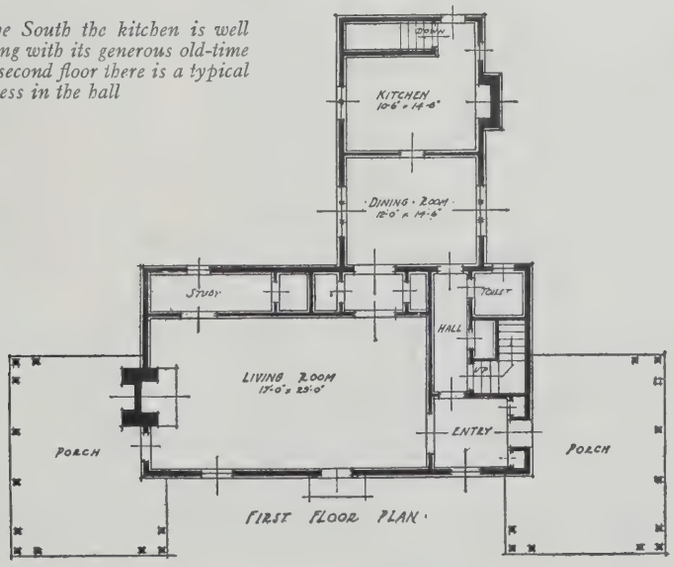
The lines of the porch roofs, given only the slightest pitch from the horizontal mark the house as distinctly Southern; in the north roofs are necessarily pitched to shed snow





There is a touch of Southern hospitality in the broad doorway from living room to lawn

As in most houses of the South the kitchen is well isolated at the end of a wing with its generous old-time chimney corner. On the second floor there is a typical spaciousness in the hall



(Photographs by Tebbs & Knell)

An informal corner of the James H. Causey garden, Denver, Colorado (McCrary, Culley & Carhart, Landscape Architects). This clearly illustrates the use of the sweeping line in the shrub borders; but even here vertical and horizontal lines are found

FORCE of LINE in GARDEN DESIGN

ARTHUR HAWTHORNE CARHART

Landscape Architect

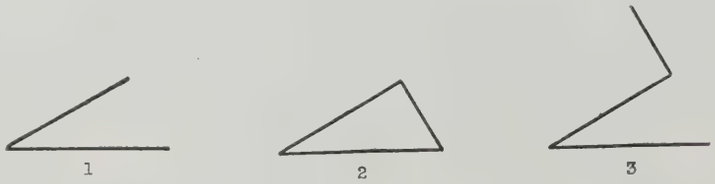
LINES—what graceful, powerful sedate, lovely, dynamic, upsetting, soothing, and purposeful landscape elements they are! Yet how seldom they are considered.

To the trained eye a garden picture can resolve itself into lines opposed, parallel, or with graceful sweeping modulated curves leading the eye to points of interest. In their proportion and in their design function these lines knit together elements of beauty. Study of lines may introduce an interesting angle of design, and this phase of garden planning is of genuine importance.

Consider the compositional force of a long, slender flag-pole lifting its needle cloudward. It is a pure landscape example of the vertical line. Modified we find it in the Bolles and Lombardy Poplars and many native and imported evergreens. The vertical line is also found in walls, tree trunks, pergola columns and even in the slender stalks of Larkspur, Pentstemon, and Tulip. The vertical line garden motif is almost universal, and is a most powerful compositional element. It shoots the gaze skyward. It asserts itself. It can be a very potent element in producing a pleasing garden picture or it may cause unbalancing and inject a sense of unrepose.

Now conjure up another line. Think of a far horizon such as the sea, the prairies, or distant level topped mountains. This is the typical horizontal line of landscape. It is almost as powerful as the vertical line. But unlike it, the horizontal line gives a sense of stability, of rest, of broad, serene open spaces. Garden terraces, walks, and pools seen in perspective, the edges of formal beds, the roofs of summer houses, horizontal tree limbs, all are horizontal lines.

Do you recall the picture called the "Harp of the Winds" in which there is a row of straight-boled trees reflected a placid lake? Two lines predominate in this picture; the vertical and the horizontal. The straight powerful line of tree trunks is opposed by the horizontal lines of lake shore



Just to illustrate the force of bare lines three figures are here offered as studies. Figure 2, the triangle, gives a sense of completeness. This is a characteristic of the triangle. Figures 1 and 3 have the same base, the same hypotenuse and the same acute angle between the two lines, as found in the restful figure 2. Yet both figure 1 and figure 3 are not restful to look at. They suggest unbalanced force; continued, unleashed motion. What is true of such simple figures as these is doubly true of a garden where many line forces remain unbalanced because of poor design. Single lines are forces in garden pictures and many lines, such as found in all gardens, but multiply the opportunity for creating disharmony through unbalanced line composition.

and horizon. And because the stable, powerful horizontal line crosses the vertical line, a sense of stability and balance results. The plain cross, such as the Red Cross emblem is a good example of the opposition of the horizontal and the perpendicular. It is a stable figure.

In a garden picture there must be a balancing of the horizontal and the perpendicular lines to secure restfulness. By placing Cedars or balustrades on terraces, Poplars back of pergolas, a pyramidal tree or Hollyhocks against brick walls, or a thousand and one other means, through opposing these two groups of lines against each other beauty and a sense of balance and fitness are attained.

A third group of lines is the curves. By their use park planners and other designers of naturalistic landscape lead the eye from interest point to interest point; or a curving line may lead the vision and the thought on and on into a visualized non-existing landscape which is seemingly beyond that in view.

This curving leading line is the chief characteristic of naturalistic landscape. It must have room, sweeping breadth, carrying eye and thoughts afar, if it is to reach its finest expression. For this reason designing "naturalistic" landscape on lots less than a hundred by a hundred feet is difficult. The curving, meandering line and the finest sort of natural landscape may be produced on a metropolitan home grounds. But a really artistic handling of the naturalistic style on a small place calls for such an able mastery of the curving line that few amateurs and relatively few professional designers ever attain anything approaching perfection. Basic design in naturalistic landscape is far more subtle than in formal composition; it must be given the finest type of compositional studies.

The circle is another form of line composition. The oval, the triangle, the spiderweb, the spokes of a wheel, the letter "L," all suggest other line forms. The three line forms most powerful in the garden and home landscape have been discussed at length, for in them lie the elements of force found in combinations of lines which make figures.

LINES are primary major elements of landscape planning both on plan and on the ground. I do not say that when a qualified designer plans a garden he distinctly studies lines alone. Such a designer knows, by reasoning, or by the instinct, that he must "break" the level coping of a sturdy garden wall by planting an upstanding tree against it to make it seem more in balance. So he plants the tree—and opposes a horizontal line with a perpendicular line. The result is the same; the picture is restful and in line balance.

Lines alone do not comprise all of the elements of landscape composition. Do not delude yourself into believing that if all lines in your garden plan are studied, well-planned, well articulated, the result will be a perfect garden. Far from it. There is mass balance, proportion, texture, color and numerous other things to be harmonized. But remember lines are powerful elements in garden design. They can make it restful or irritating, depending upon whether or not they are in balance. They are the very essence of much composition; they are very little considered by the average garden enthusiast.

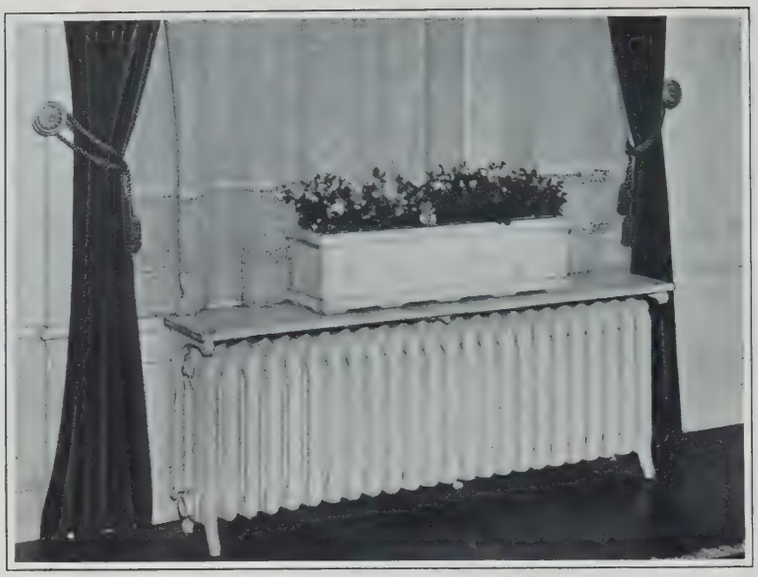
Plants will grow as well, the blooms will be as gorgeous, in a garden with its lines all askew, as in a garden where lines are all in good composition. One can take much enjoyment from individual flowers growing in a disjointed garden. But collectively, a garden of flowers, without design in its lines, will never give the satisfaction found in a well planned garden.

Watch the lines in your garden. They are irritating, inviting, dominating, stimulating, tranquilizing, annoying, charming, all as you may handle this element of garden design. Do not forsake gardening to cultivate the theory of lines in a design, but, if you love your garden, study the lines in its picture.

Starting with the foreground these horizontal lines are noted: brick sidewalk, front line of pool, pergola floor, seat in pergola, wall back of pergola, horizontal lines in iron fence, pergola top beams. From left to right vertical lines are found in: pillars of the pergola, birch tree trunks, sides of the pool, vertical parts of the fence, Willow trees near the fence, the standard of the bird bath. The combination produces good line balance in the garden of Mr. John Evans, Denver, Colorado (McCrary, Culley & Carhart, Landscape Architects)

This is the second article in a group dealing with the elements of garden design, by Mr. Carhart. The first, "Garden Skeletons," was published in the January, 1926, issue; and the next, "Garden Earth" will appear shortly.—The Editors.

The horizontal line forces (found in walks, pergola floor, beams, awning and roof) are opposed by verticals found in the Western Cedar (Juniperus scopulorum), the walk on the right, pergola columns, the Elm tree trunk at the right, and the Bolles Poplars (Populus bolleana)



Where once a radiator under a window meant only utility and not beauty, now we can even successfully grow flowers on them, where a cover such as this is used

Screening the Radiator

Photographs by courtesy of American Metal Products Corp., Schleicher Inc., Sodeman Heat & Power Co., Daniel P. Griscom, Ferrobrant Inc.

With its metal surface finished like walnut, with the panels pierced like cane and with its marble top this radiator cover not only hides an unattractive piece of equipment but is distinctly decorative

Not only do these covers reproduce all kinds of wood and finishes, not only may they be had in every shape and size, but they also contain humidifiers to render the air moist and healthful

So individual is this radiator cover that it has been named. Fittingly is it called "The Pines", made in France by an American craftsman, each cane wrought in iron as to suggest the beauty of wood, rather than the chill of metal

In the solarium at the home of Mrs. E. P. Hettiger, Fort Thomas, Kentucky, an unsightly radiator has been transformed into an attractive window seat, by means of a steel radiator cover that blends well with the other furnishings of the room

GOING TO BUILD?

Then REMEMBER:

SOME FACTS AND FIGURES THAT WILL SAVE TROUBLE AND MONEY

WHY IS AN ARCHITECT ADVISABLE?

Because he not only draws a plan exactly suited to the needs of his client but also obtains estimates, aids in drawing up all contracts, oversees all construction, thus protecting the owner against inferior work, overcharge, or fraud, and at the conclusion of the work inspects it carefully before final payment is made to the contractor.

WHAT ARE THE VARIOUS TYPES OF EXTERIOR WALLS?

There are the "big four" of building materials—brick, wood, stucco, and stone, with many combinations of these. If of wood, the walls may be of shingles, clapboards, or siding or half-timber.

WHAT ARE THE VARIOUS TYPES OF ROOFS AND ROOFINGS?

There are flat roofs, gable, hip and gambrel. These may be made of shingles, either asbestos or wood, tiles, either curved or flat like shingles, slate, metal, tar-and-gravel or other plastic materials.

WHAT ARE WALLBOARDS? ARE THEY CHEAPER THAN PLASTER? AS SATISFACTORY?

Wallboards are substitutes for plastered walls. They are cheaper than plastered walls. They are made of various materials such as wood fibre, paper, asbestos, etc.

These boards give excellent satisfaction for making partitions, etc., since they are easily put on (coming in sheets about 4 x 8 feet), save time, labor, and space. They may be papered over, painted or covered with the new plaster substitutes.

WHAT ARE PLASTER SUBSTITUTES?

Mixtures of various materials such as sand, asbestos, cement, etc., easily applied over old plaster, wall board, wallpaper, forming a permanent wall that can be washed. They are cheaper than plaster and dry quicker.

WHAT KINDS OF PLASTER FINISH CAN THEY REPRODUCE?

The only limit to the finishes possible is the limitation of the user. A few finishes easily obtained are Stippled Finish, Antique Plaster, Italian Plaster, Early Colonial, English and Gothic.

CAN SUCH WALLS BE TINTED OR PAINTED?

Easily, by using what is known as flat wall paints, or the paints and finishes manufactured expressly for some of these finishes.

WHAT IS THE APPROXIMATE COST OF SUCH FINISH?

If one of the modern superior finishes be used the cost will be equal to about three coats of paint.

WHAT PAINT IS BEST FOR OUTSIDE WORK?

Any paint made with white lead and linseed oil.

SHOULD THIS KIND OF PAINT BE USED FOR TIN OR IRON?

No. Especially prepared paint should be used on all metal when used for outside work.

HOW MANY COATS OF VARNISH ARE NECESSARY? HOW MANY OF ENAMEL? OF PAINT?

Three of each for a particularly fine finish.

WHAT ARE THE STAINS MOST COMMONLY USED? ARE THEY DURABLE?

Acid, oil, water, and varnish stains. Yes, if properly protected by varnish. Varnish stains do not need this extra protection.

IS THERE SUCH A THING AS A FIREPROOF HOUSE?

Yes, but this is very costly as every piece of construction must be of unburnable material. Most so-called fireproof houses are only partially so.

WHAT IS A FIRE-STOP IN WALLS?

A fire-stop is a filling of brick and mortar or cement at each floor between the studding. Every house large or small should be so constructed.

WHAT SHOULD DECIDE THE FINISH OF THE INTERIOR WALLS?

The style of the house, use of the rooms, their furnishing and size.

WHAT ARE THE TYPES OF WALL COVERINGS MOST FREQUENTLY USED?

Wallpaper, tile, textiles, plaster or plaster substitute and paneled walls.

HOW SHOULD WOOD PANELING BE FINISHED?

Where the wood has a choice grain as in oak, walnut, chestnut, birch, mahogany, gumwood and cypress, the wood makes the richest appearance if simply stained and waxed to bring out the grain or it may be left in its natural coloring and either waxed or varnished. Such woods as white pine or whitewood are most suitable for enameling or painting.

WHAT WOODS WEAR BEST FOR FLOORS?

Hardwoods such as oak, beech, birch, or maple.

WHAT ARE THE VARIOUS KINDS OF FLOORS?

Slate, tile, stone, brick, wood, linoleum, rubber tile, cork and plastic flooring.

WHAT IS MEANT BY PLASTIC FLOORING? IS IT PRACTICAL?

Plastic Flooring is a composition to be put on over the floor with a trowel. It can be so applied as to curve up over the wall base in a water-tight cove. It is very practical, comes in various colors and is easily kept clean.

WHAT ARE THE OPEN GRAIN WOODS THAT NEED A PASTE FILLER IN FINISHING?

Oak, ash, walnut, chestnut and mahogany.

WHAT ARE THE WOODS THAT DO NOT REQUIRE A FILLER?

Pine, cypress, cherry, beech, birch, gumwood, maple, and hemlock.

HOW IS A FLOOR PREPARED FOR FINISHING?

Have surface as clean as possible, sandpaper with fine paper until absolutely smooth, remove all spots or discolorations, wipe off all dust, having surface dry. Use a stain if color is desired, then the filler where required, allow to dry. If a wax finish is desired, apply wax evenly, allow to dry and then polish. If the floor is to be varnished, use one coat of thin varnish and two of its natural consistency if the floor be new. Allow 12 hours for the first coat to dry, then sandpaper lightly, dust off, apply second coat, allowing to dry for 24 hours before applying the third and last coat.

SHOULD CEILINGS ALWAYS BE LIGHTER IN COLOR THAN THE WALLS?

Not always. In very high rooms, a comparatively dark contrasting color apparently reduces the height. Even a low ceiling as a rule should be tinted slightly with the same color as the side walls; otherwise there is a too-abrupt break at the cove.

WHY IS COLOR HARMONY IN A ROOM IMPORTANT FROM A HEALTH POINT OF VIEW?

Because color has a distinct effect on nerves and health. Clashing discords of color or dull, dreary rooms are actually destructive to rest and comfort.

What Should Determine the Use of Color?

The size, lighting, and exposure of the room.

Why Should Size Affect the Color Scheme?

Because colors can either make a room appear smaller or larger as needed; also because extremely bright colors which might be very effective in a spacious apartment would be entirely out of place in a small room.

Are Chintz, Printed Linens and Cretonnes Suited to a Living Room?

Yes. They will be found especially pleasing in the colonial type of room, combining extremely well with Oriental rugs and good furniture.

What Should Be the Keynote of the Well-Planned, Well-Furnished Home?

Individuality, with attention paid to the style and size of the house, with harmony in both color and style of furnishings.

Standard Dimensions

There is real economy in selecting doors and windows of the sizes made for stock by the planing mill. Here are the ones in most demand.

Doors

Inside doors are $1\frac{3}{8}$" thick in the narrower widths and both $1\frac{3}{8}$" and $1\frac{3}{4}$" thick in 2'–6" and greater widths. Exterior doors are either $1\frac{3}{8}$" or $1\frac{3}{4}$" thick. For paneling arrangements see the mill catalogues.

Purpose	*Sizes*
Main entrance	2'–8" x 6'–8" or 7'
	3 x 6'-8" or 7'
Kitchen entrance	2'–8" x 6'–8" or 7'
	3' x 6'–8" or 7'
Main rooms, first floor	2'–8" x 6'–8" or 7'
	3' x 6'–8" or 7'
Bedrooms	2'–6" x 6'–6" or 6'–8"
	2'–8" x 6'–6" or 6'–8"
Closets	2' x 6'–6" or 6'–8"
	2'–4" x 6'–6" or 6'–8"
	2'–6" x 6'–6" or 6'–8"
Double doors, glazed (French): opening size per pair	4' x 6'–8" or 7'
	5' x 6'–8" or 7'

Windows

It is usually more pleasing to use a size smaller glass in the second story windows as compared to those on the ground floor.

Doublehung type:

	Glass size	Sash width	Window height (2 sash)
3 panes to sash, 3 wide	8" x 10"	2'–4"	2'–2"
	9" x 12"	2'–7"	2'–6"
	10" x 12"	2'–10"	2'–6"
	10" x 14"	2'–10"	2' 10"
6 panes to sash, 3 wide	8" x 10"	2'–4"	3'–10"
	9" x 12"	2'–7"	4'–6"
	10" x 12"	2'–10"	4'–6"
	10" x 14"	2'–10"	5'–2"
4 panes to sash, 2 wide	8" x 10"	1'–8"	3'–10"
	9" x 12"	1'–10"	4'–6"
	10" x 12"	2'–0"	4'–6"
	10" x 14"	2'–0"	5'–2"

Casement sash are 1" less in height than the two doublehung sash as above

Floor Joist Sizes

Floor joists should be bridged once in spans of 8 to 16 feet, and twice in spans exceeding 16 feet, with the usual 1" x 3" cross-bridging. The following are sizes of hemlock or spruce for dwellings (load of 60 lbs. per sq. ft.).

Span between supports	*Sizes and spacing*	*center to center*
10'	3" x 6"	16"
11'	3" x 6"	12"
12'	2" x 8"	12"
13'	3" x 8"	16"
14'	2" x 10"	16"
15'	2" x 10"	12"
16'	2" x 10"	12"
17'	2" x 12"	16"
18'	3" x 10"	12"

Rafter Sizes

In computing the span of a rafter the length between supports is taken horizontally rather than on the slope. The figures are for northern climates where 2 feet of snow may be had, and for hemlock or spruce.

Sizes and spacing, center to center

Span between supports	For shingle roof not plastered	For shingle roof plastered; tile or slate roof not plastered	For slate or tile roof plastered
7'	2" x 4"–16" o.c.	2" x 6"–20" o.c.	2" x 6"–20" o.c.
8'	2" x 6"–20	2" x 6"–20"	2" x 6"–20"
9'	2" x 6"–20"	2" x 6"–20"	2" x 6"–16"
10'	2" x 6"–16"	2" x 6"–16"	3" x 6"–20"
11'	2" x 6"–16"	3" x 6"–20"	3" x 6"–16"
12'	3" x 6"–20"	3" x 6"–16"	2" x 8"–16"
13'	2" x 8"–20"	2" x 8"–16"	3" x 8"–20"
14'	2" x 8"–16"	3" x 8"–20"	2" x 10"–20"
15'	2" x 10"–24"	2" x 10"–20"	3" x 8"–16"
16'	2" x 10"–20"	3" x 8"–16"	2" x 12"–20"

Fireplace Flue Sizes

These depend upon the size of the fireplace's opening into the room. These flue sizes are those of the terra-cotta flue lining:

Fireplace opening Width	*Height*	*Proper depth (splayed 4" to 6" on each side)*	*Size of flue section*
2'	2'–6"	1'–6"	$8\frac{1}{2}$ x $8\frac{1}{2}$"
2'–6"	2'–6"	1'–6"	$8\frac{1}{2}$ x 13"
3'	2'–6"	1'–6"	$8\frac{1}{2}$" x 13"
3'–6"	2'–6"	1'–8"	$8\frac{1}{2}$" x 13"
4	2'–8"	1'–8"	13" x 13"
4'–6"	2'–10"	1'–10"	13" x 13"
5	3'	2'	13" x 18"

Concrete Mixtures

A rich mixture, for columns and other structural parts subject to high stresses or requiring exceptional water-tightness: proportions, as given by Taylor and Thompson: 1: $1\frac{1}{2}$: 3. That is,

1 bbl. (4 bags) portland cement
$1\frac{1}{2}$ bbls. (5.7 cu. ft.) loose sand
3 bbls. (11.4 cu. ft.) loose gravel or broken stone

A standard mixture, for reënforced floors, beams and columns; for arches, for foundations subject to vibrations; for tanks, sewers, conduits and similar water-tight work; proportions, 1: 2: 4. That is,

1 bbl. portland cement
2 bbls. loose sand
4 bbls. loose gravel or broken stone

A medium mixture, for retaining-walls, piers, thin foundation walls, building walls, ordinary floors, sidewalks, etc.: proportions, 1: $2\frac{1}{2}$: 5. That is

1 bbl. portland cement
$2\frac{1}{2}$ bbls. loose sand
5 bbls. loose gravel or broken stone

A lean mixture, for unimportant work in masses; for heavy walls, large foundations supporting a stationary load; for backing stone masonry; proportions, 1: 3: 6. That is

1 bbl. portland cement
3 bbls. loose sand
6 bbls. loose gravel or broken stone

Shingles

The building supply houses sell shingles by the bundle, usually four bundles to the thousand. A "thousand" random-width shingles means the equivalent of a thousand shingles four inches wide.

When laid, 1,000 such shingles should cover:

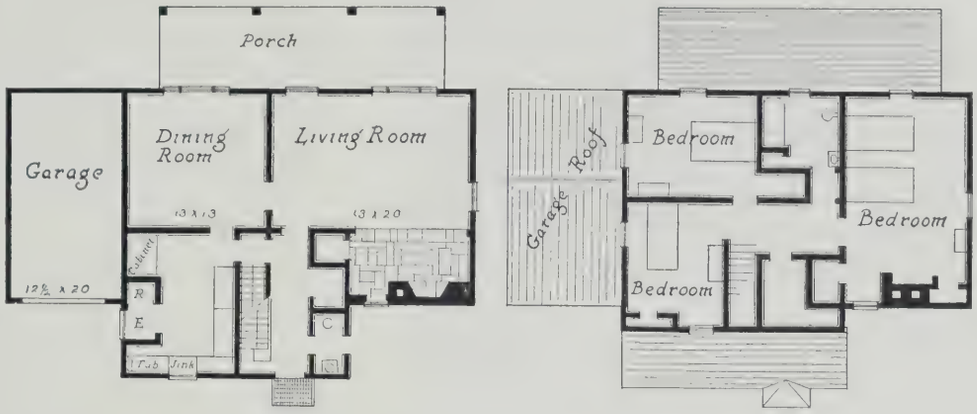
125 sq. ft. laid $4\frac{1}{2}$ to weather
138 " " " 5 " "
152 " " " $5\frac{1}{2}$ " "
166 " " " 6 " "

For the wider courses used on side walls of the Colonial type, special shingles are used, two and even three feet long. The length showing to weather should never exceed one-third the full length of the shingle.

JANUARY PLAN IMPROVEMENT CONTEST

$25 Awarded to Mrs. Carl Cross, Wichita, Kansas

THE first announcement of the Monthly Plan Improvement Contest (January) brought out a very interesting lot of suggestions. Curiously enough they fell largely into definite groups, several contestants suggesting practically identical improvements in given plans, although there was a scattering interest shown in all the plans published in that issue. The prize is awarded to Mrs. Cross because her suggestion not only coincided with the suggestion of many other entrants but because she presented a complete reconsideration of both the house detail and the garden, accompanied by carefully prepared drawings. One outstanding thought for improvement filtered through a great many of the entries and that was the desirability of bringing the garage as close as possible to the house so as to save waste of land for driveway. The winning suggestion follows:



I SUBMIT the following suggestions as improvements for the plan on page 333 of the January issue:

1st: On so small a lot I begrudge good gardening space for the use of a garage and drive, and would therefore "tie" it to the house. To prevent the dining room from being too dark, I would change the east window to a three-panel glass door, and preserve balance in the rear view by making the door farthest west in the living room similar. The other outside entrance to the living room would then become a window, and the porch would be shifted as indicated.

2nd: I would re-plan my kitchen as indicated. This gives a north light at the sink.

3rd: Include the space labeled "linen closet" with its adjoining closet, and build the linen closet as shown on the revised plan.

4th: Under both the north bedroom windows build low book cases and add a fireplace to the west bedroom.

5th: While the fence is very attractive, I fear it would be a nuisance in passing from the front entrance to the drive. Place it on the opposite of the walk where it would protect the entrance into the garden on the west.

6th: Have a rear door in the garage in order to allow the delivery of bulky garden material and the use of the garage for storing tools.

7th: Fill the upper portion of the wood closet with shelves to accommodate the storage of magazines.

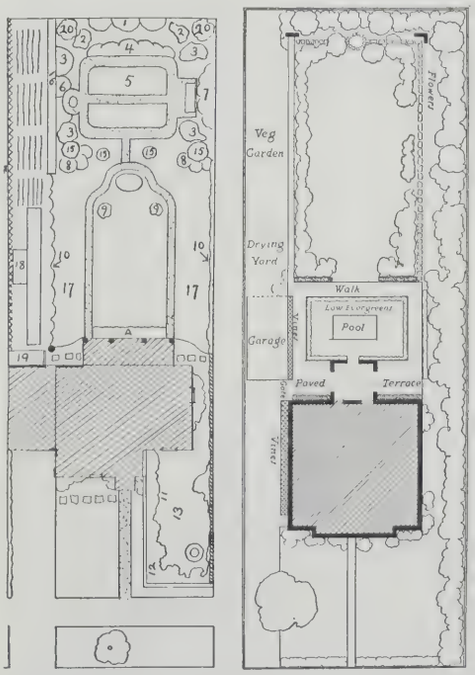
8th: For the crazy walk and fountain rim, use the same kind of rock as is used in the north wall of the alcove. Use any woodsy or outdoor figure in bronze or weathered effect for the fountain.

9th: Make a winter garden as the termination of the view from the house. I love my Roses but I do not want them so featured. A distant view of roses discounts their beauty in summer, and in winter the exposure of their wrappings is scandalous. The space should serve two purposes: (*a*) To hide the rose garden from the house in winter; (*b*) To furnish the living and dining room windows with a cheerful prospect of evergreens and bright berries. It is to help this season that I chose the fountain rather than a Waterlily pond.

10th: Directly back of the garage I would have my coldframe. Why couldn't Kitty Lou have her sand pile in the drying yard? The laundry seldom needs the space oftener than once a week.

11th: On the east and west sides of the perennial garden use Rambler Roses on simple lattice, stained brown to match the roof.

12th: I would follow Francis Bacon's pretty fancy and plant Thyme in the crazy walk, which should prevent the pathways from seeming too formal for this style house.—Mrs. Carl Cross, 452 S. Holyoke Ave., Wichita, Kansas.



Mrs. Carl Cross' prize winning plot plan (left). Planting details: 1, Mary Wallace Rose. 2, Quince. 3, Hugonis Rose. 4, Baby Ramblers. 5, Roses. 6, Buddleia. 7, Forsythia. 8, Peonies. 9, Dwarf Pear. 10, Silver Moon Rose and Clematis paniculata. 11, Gooseberries. 12, Hollyhocks. 13, Wildflowers and shrubs. 14, Grapes. 15, Evergreens. 16, Asparagus. 17, Perennials. 18, Sand Pile. 19, Coldframe. 20, Dwarf Apple. Under shrubs plant shade-loving plants. In the two shaded beds A and B plant sweet smelling plants.
Right: suggested rearrangement in honorable mention (see Mrs. Le Vesconte's letter, right).

AMONG the other suggestions the following was selected as especially meritorious:

The changes which I have suggested in the landscape plan of the Owen Law Gowman house (pictured on page 332 of your January magazine) are made because the present position of the garage, wastes space and makes an inconveniently long distance to back the car before reaching the street. In the position I have chosen (see accompanying plan) the length of drive is shortened considerably, thus giving more room to the garden and bringing the drying yard closer to the house.

The paved terrace in connection with the porch at the rear of the house makes the approach to the garden more gradual and I suggest that this little forecourt between the house and the informal lawn be planted primarily for winter effect. The walks shown on the plan at left give good circulation and a chance to get out in the garden during seasons when it is unpleasant underfoot. The path which bounds one side of the lawn is terminated by a seat. Across the far end of the lawn the path leads around another garden feature which might be a bird bath or whatever tickles the fancy of the owner. This feature, perhaps surrounded by an interesting clump of trees or shrubbery, is also the terminal motive of the lawn as viewed from the porch or forecourt.—Elizabeth Le Vesconte, Yakima, Wash.

Each month Garden & Home Builder offers a prize of $25 for the most striking practical suggestions for the improvement of any of the plans in the current issue. This applies to any or all plans printed in this month's number. Entries, addressed "Monthly Plan Contest" c/o The Editors, Garden & Home Builder, Garden City, N. Y., must reach us before May 1st.

Some GARDENS of SANTA BARBARA

Photographs by
Frances B. Johnson, J. W. Collinge, and A. Sturtevant

A roadside border planting at the home of Mrs. Theodore Shelton at Montecito, composed of Sea Lavender (Statice) and rose-pink Ivy Geranium, grown as a hedge to enclose an Orange grove—a richness of color combined with complete protection as an enclosure for young trees

Miraflores—the garden of Mrs. John Percival Jefferson. In the corner where Roses dominate

Graholm, the Montecito home of Mr. David Gray, is fitted with consummate artistry into its landscape setting. The house itself, low and rambling, nestles under the spreading Oaks on the top of the hill. The garden begins at the very door and its vistas sweep more than a thousand square miles of mountains, valley, islands and blue Pacific

Casa de Mariposa (House of the Butterflies), the home of Mrs. Walter Franklyn Cobb. The garden opens from the patio, looking south, and trellises covered with blue Plumbago and Rêve d'Or Roses enclose a series of terraces leading to the shadowed rock garden at the end

Where the

Garden Club of America

Holds Its

Thirteenth Annual Convention

April 12 to 16

Photographs and captions supplied by
Mrs. Ervanna Bowen Bissell

The Cactus garden of Graholm, Mr. David Gray's estate, is the final step leading from the house and gardens to the wide, open spaces and limitless reaches of the Pacific

The swimming pool in the garden of Mrs. E. Palmer Gavit at Linda Questa. The masses of Prickly Pear are beautiful in flower and fruit—rosy wreaths in shades of red and yellow

In Santa Barbara's soil and climate, flowers and vines respond in profusion, giving joy and beauty alike to the modest cottage and magnificent estate

Far Afield the garden of Mrs. H. C. Chatfield-Taylor. Nature has provided rocks in abundance although she has withheld the moisture necessary to make a perfect home for rock plants, so annuals and perennials are used—Sedums, Thyme, and colorful masses of Cinerarias

OUR PRIZE HOUSE IS BUILT

$500 Awarded for a House in the Colonial Style, Complete Cost $14,716.10

This is the house that won the $500 prize offered by GARDEN & HOME BUILDER for the first dwelling built from the p ans of our specially designed Prize Offer House published in the October, 1925, issue, pages 98–100

WHEN we presented the plans for the GARDEN & HOME BUILDER PRIZE OFFER HOUSE in the October, 1925, issue, we offered a prize of five hundred dollars for the first account of the actual building, accompanied by photographs, bill of costs, etc. The account that follows, submitted by Miss Helen Sands, Garden City, N. Y., fulfills the requirements then laid down, and is, in fact, the first account received from the many sets of plans that have been purchased up to this writing.

Needless to say, we were as much surprised as we were gratified at the speedy result from our offer. The fact that the winning house is built almost across the road from our own offices is merely a coincidence, and in fact all the earliest applications were filled simultaneously on October 15th. The story of the building is circumstantially told in the following.

The original rendering

WE BUILD THE HOUSE

Helen Sands

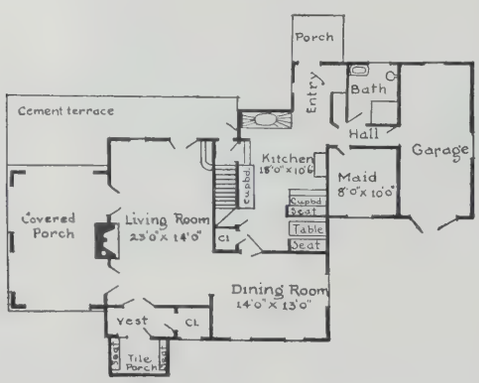
LET me recommend building a "Prize Offer House"! We are sincerely glad that we entered the competition by building from these plans on Cedar Place, Garden City, Long Island,N. Y.

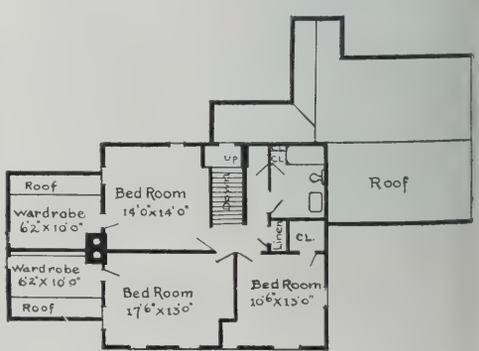
Everyone enjoys a race for it adds zest to effort and it is gratifying to be able to see results quickly. Such enthusiasm and interest have been displayed by all concerned in the building that we were spared many of the usual disappointments. The credit is due to the contractor, Mr. Benjamin F. Simonson of Rockville Centre, Long Island, who planned and arranged the work so skilfully. It proves that coöperation is essential in order to get each artisan at his particular job at the proper time. One of the secrets of our builder's success is that his carpenters are skilled workmen, who can do all the wood work on the house, which includes framing, making forms for concrete, construction of stairs and mantel, and trimming. I have never before seen so many workmen busy *at once* on such a small house. There were 47 men employed from the time of the excavating until the house was completed and of this number, 15 were apprentices. This included every trade.

We received the plans and specifications for the Prize Offer House on October 16th and we filed them the next day with the Village Clerk. Right here let me give a word of advice to those who are about to build for the first time. Be sure you understand the restrictions on your lot and the Zoning Ordinance of your particular town or village. Garden City has been most carefully zoned and restricted so we encountered our first difficulty with the Building Inspector. The plans, published in the October issue of Garden and Home Builder, called for a lot 75 feet wide, which is the width of our lot, but because of the attached garage, these plans did not fulfill the requirements of Garden City. The result was, that after appealing to the Board and some arguments, we had to agree to make the porch a trifle narrower. This delayed us a week, but we excavated for the main foundation, as well as for the sewer and water pipes to the street and as soon as the plans were passed, we started building. This was on October 26th and the house was entirely finished and ready for occupancy the day before Christmas.

Perhaps many of my readers are wondering about the quality of work that has been done so speedily. I only wish that it might be generally inspected, for I feel confident that no one could criticise the construction. The very best materials have been used whenever there was any choice. There are brass pipes throughout and a large copper boiler. The photograph of the kitchen shows the tile walls the superiority of the sink and the Vulcan Smoothtop stove. There are oak floors in

The builder made a few changes in the arrangement of the interior as these plans show—but for the most part he followed the architects' drawings exactly





every room of the house. Our builder boasts that the plaster work is so solid that it can be hit with a hammer and he proved his statement by letting us demonstrate. A greater proportion of cement was used in the mixture for the foundation and we began raising the building before taking down the wood forms. Carpenters, plumbers, steam fitters, electricians and bricklayers were all on the job at once and the lathers, plasterers, and tile setters went right to work as soon as one part of the house was ready for them. All mill work was done at the mill, so there was no delay for material of any kind.

On November 23rd the furnace was lighted so that the plaster would dry quickly and the trimming could be done. Usually, November and December would not be chosen as excellent months for building but by keeping heat in the house all the time and with fairly dry weather, it has been possible to reach our goal, which was to complete the house by Christmas.

It is one thing to get all the comforts and conveniences into a large house, but a small house is a different story. To remember closets not only for clothes, but linen, china, kitchenware, etc.; to have a refrigerator in a cool place accessible for the ice man and an entrance for the ash man, so he will not have to walk through the house; these and many other well planned arrangements have made our "Prize Offer House" a desirable *small* house. Every possible inch of space has been utilized to the best advantage, so that our rooms might be large and airy. We selected the Colonial type of the two styles offered because the roof was less slanting and it was possible to have more windows.

Our contractor made several alterations, which we also think are improvements in the architects' plans. He changed the landing on the stairs to the third floor, so as to give more head room and for additional space for a broom closet. It is a great convenience to have a place for cleaning materials on the second floor. In constructing the wardrobes over the porch, he put a subfloor of concrete and tar paper, so as to make them warmer and he extended the side walls, so that each wardrobe is 2 feet wider. They are now big enough for a baby's crib and of course they have windows.

The living room of the house

The attached garage is a great advantage from the garden lovers' point of view, as well as an economical one, because of heating and lighting. On a small lot, it saves so much space that would otherwise be taken up in driveway. As it is, we can sit on our cement terrace or covered porch and have our garden all around us. Our living room windows will have the benefit of this view. The entire width of the lot at the rear of the house can be used for the garden.

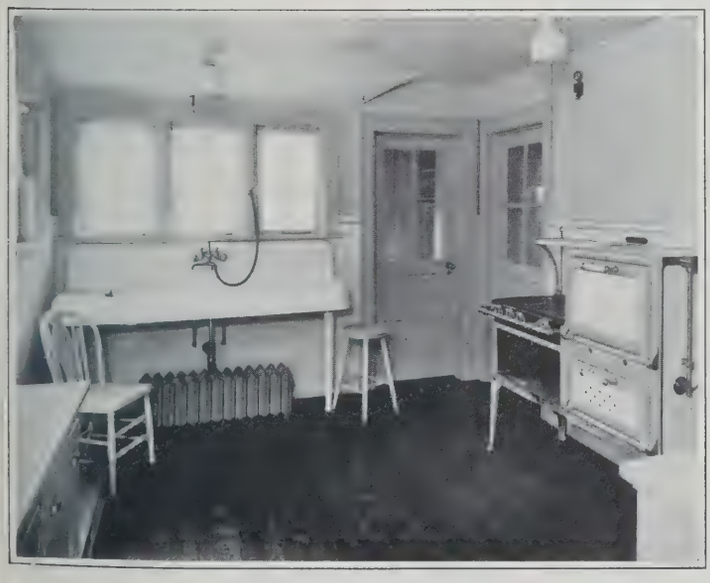
We put a cement walk at the back at the kitchen door and a brick walk from the street to the front entrance. These, with the cinder driveway, the grading and planting of shrubbery, were all extras, amounting to $510, and not included in our total cost.

The plans called for an open attic on the third floor, but at a cost of $250. we finished a room and two closets, still leaving half the space for store room. The metal weatherstripping on the front door and French windows on the open terrace were not specified but as there was no protection from rain, we felt it essential, so had it done at an additional cost of $35.00.

In my detailed schedule of costs given below, the total includes all the superior materials such as brass pipes and three coats of oil paint, the last being stippled, with which we decorated every room and these things were not specified. We also tiled the walls in the kitchen, while the plans only called for Keene cement, marked off as imitation of tile. We put in very good electrical fixtures and more outlets than were specified. Any housewife will appreciate these conveniences. We hope that these suggestions will prove helpful to others in building their homes.

(Continued on page 206)

The Colonial doorway



The fully equipped kitchen

The veranda (east) and back of the house (south)

In a really rigorous climate reliance must of necessity be placed upon the Hybrid-Perpetuals and very well worth while are they for brilliant color, size of bloom and all round sturdiness, as this photograph of an Ottawa garden well shows, varieties being chiefly Mrs. John Laing and Mme. Joly

PLAYING ROSES FOR HARDINESS

PAUL B. SANDERS

Much Depends Upon Where You Live, and the Rules of the Game Seem to Vary Accordingly

WHERE there is snow continuously from mid-November to late April, and sharp frosts from the first week in September to the first of June, disappointments in Rose growing are bound to occur. However, a great many Roses are grown under just these conditions and the results are sufficiently satisfactory to encourage an attempt to try more varieties yearly. Of course, we here in Ottawa, P. Q., Canada, have little difficulty with most of the Hybrid-Perpetuals; and Rugosa, Austrian Brier, Polyantha, Cabbage, Damask and Provence Roses all do well; but, to the uninitiated, the variety of Hybrid-Teas that can be grown successfully here is surprising.

The particular rose garden of which I now write has an ideal site: a southern and eastern exposure, with a hedge and pergola to the west, and a row of Elms to the north, all of which provides ample protection yet allows the entrance of much sunshine plus a good circulation of air. The soil is a clay loam, just a trifle heavy, but cool and possessing excellent natural underdrainage. One small section of the garden is blessed with a lighter loam, almost sandy in nature, and here the Hybrid-Teas do their best for us.

Some of the Roses do not behave in the manner generally attributed to them. For instance, Paul Neyron (HP) provides us with many beautiful blooms when it lives, but usually fails to winter satisfactorily and many rosarians claim it to be hardy. It is not so here.

HYBRID-PERPETUALS

THE outstanding HP's here, as regards wintering, are Mrs. John Laing, Ulrich Brunner, General Jacqueminot, and Baroness Rothschild. Mme. Gabriel Luizet does not usually winter quite as well as these four; but, in 1924, our sole remaining bush of this old variety provided us with sixty magnificent blooms, and followed this performance by behaving properly all winter, and appearing in the spring of 1925 in a thriving condition. The bush was planted in 1911.

These four crimson-shaded HP's: Captain Hayward, Gloire de Chedane-Guinoisseau, Hugh Dickson, and Prince Camille de Rohan seem less inclined to winter favorably. But the wonderful amount of bloom provided by

them in good seasons renders them practically indispensable.

That most remarkable HP, Frau Karl Druschki, disappointed us somewhat in the 1924–1925 winter; several of the bushes got frost bitten, with consequent demise. However, we planted more of it and our hopes are running high.

"SPRING" PLANTING FAVORED

IT WILL be noticed that Roses are planted here in the spring (i. e. as soon as possible, April, usually May, but some years not till June). Fall planting is, to my mind, useless here. If attempted, the bushes must be planted early enough to become established before frost; if they progress that far they do well. But they should do more if they are to withstand a rigorous winter: their wood should ripen, and that very rarely happens here before severe frost, with fall-planted Roses.

I do not believe in digging manure into rose beds in spring. Whether the manure was spread the previous fall or just prior to its incorporation into the soil makes no difference: *It should not be dug in.* Such a practice destroys those tiny little rootlets that reach out, in early spring, for food. These rootlets act as fingers or feelers and turn this way and that, *always near the surface,* looking for food. The man with the fork cannot but destroy some of these feelers when turning in the manure; and, to a plant having such a small root area as the Rose possesses, all these minute roots are necessary. A commercial fertilizer may be applied to the surface of the beds, and the beds then raked, or liquid manure will do. But never manure dug in!

HYBRID-TEAS THAT WIN

NOW to get to my favorite Hybrid-Teas. Hoosier Beauty surely is the loveliest of all and is fairly hardy here, too. It seems inclined to have a weak neck, but the bloom is so beautiful that the fault must be forgiven.

Golden Emblem and Melody are closely matched for second place in my affections. Unfortunately the latter winters very poorly here, but the bloom is certainly exquisite.

I like very much, too, Avoca, Caroline Testout, Dean Hole, Gruss an Teplitz, King George V, and Mrs. Henry Morse. The last named does not appear to be subject to mildew here, though reported to be quite susceptible elsewhere.

J. B. Clark, Mme. Jules Bouché, and Mrs. Aaron Ward are not hardy here; while Jonkeer J. L. Mock, Pharisaer, Killarney, and Prince de Bulgarie do so poorly that we are trying to get along without them. No matter how Mrs. Aaron Ward is covered she does not winter well.

Hybrid-Teas which do not seem to mind our severe winters and which give us much lovely bloom include: Mme. Ravary, Gorgeous, Richmond, Mme. Abel Chatenay, Mme. Leon Pain, Lady Ashtown, General MacArthur, and Lieutenant Chauré. The last three do exceptionally well and are both strong and floriferous.

Among those varieties which one would consider to be fairly tender, judging by delicate growth and bloom, but which winter satisfactorily here, are: Ophelia, K of K, Lady Maureen Stewart, Columbia, Premier, Modesty, and Irish Fireflame. This last is a very strong grower and is productive of many fine blooms.

Two very fine Pernetiana Roses which do well here are Willowmere and Constance. Personally I see so little difference between the Pernetianas and the Hybrid-Teas, that I consider them all as one. (And now, I suppose, I have shocked the sensibilities of the experts!)

The variety, H. E. Richards, is another of my favorites, and it has performed wonderfully here during the past three seasons, so much so that we purchased another half dozen bushes of this variety this year. I regret the Rose is not included in "Roses for All American Climates" by George C. Thomas, Jr., because I believe it to be highly worthy.

La France, with its persistent balling, is disappointing. We have tried both thinning out and applications of nitrate, together and separately, just before the buds were ready to burst—but to no avail. The same may be said of the Polyantha Jessie, which grows not wisely but too well, so that it produces magnificent growth, hundreds of buds and no bloom!

Speaking of Polyantha Roses, have you ever seen anything daintier than the blooms on a thriving Jeanne d'Arc? These "pom-pons", as I like to call them, winter exceedingly well and are used both for borders and as solid beds, where they provide a wonderful display from late June until they are covered with snow. This year we are more or less anxiously watching Rudolph Kluis. This is our first season for this variety and, if reports and advance notices are correct, we will be exceedingly pleased with it. All varieties are hardy here, but among the best are: Rodhatte, Yvonne Rabier, Katherine Zeimet, Orleans, Etoile Luisante, Eblouissante and, of course, the one mentioned previously, Jeanne d'Arc.

THE CASE FOR CLIMBERS

OUR Climbers were a great disappointment last spring. In the fall they were placed very carefully in boxes and covered tightly. However, we neglected to pack anything on top of the bushes, to fill up the boxes, and in February we had a thaw. The melted snow seeped into the boxes and then froze, with the result that even vigorous bushes such as Tausendschon suffered severe reverses, and many varieties were killed. The varieties W. H. Cutbush and Dorothy Perkins survived this rather severe test without any appreciable damage; while another variety, of which I have heard very little save hereabouts, and which did very well, is Prairie Queen (called here Prairie Belle). Crimson Rambler also seemed fairly "ice proof," as did American Pillar. Two other varieties which did not withstand such rigorous conditions as satisfactorily as those already mentioned, but which ordinarily do well here, are Mrs. F. W. Flight and Paul's Scarlet Climber. As for Dr. W. Van Fleet, his untimely departure for rose heaven was very narrowly averted; as we do not care to lose him we will take better care of him in future.

If any reader has had difficulty in wintering any of the varieties mentioned, my advice is to protect with earth—that is the best covering we have found. Dry leaves with evergreen boughs placed on them to hold them in position is good; so is dry strawy manure; but earth mounded around the stem to a height of six or eight inches, is best.

And here is a rose garden in the conventional manner showing what is possible notwithstanding the climatic trails of Ottawa. Hybrid-Teas in front center; Moss Roses in center; Hybrid-Perpetuals beyond Moss Roses; a row of American Elms (Ulmus americana), Blue Spruce (Picea pungens) at left center in rear; Clematis jackmani in extreme right center (on pergola); Perennial border at left

CHILDREN IN THE HOUSE

PENELOPE BALDWIN

Special Arrangements for the Little Folk—Temporary Conveniences That May Be Rearranged or Discarded

Photographs by courtesy of W. H. Lloyd Co., United States Rubber Co., Playroom Equipment Co., James McCutcheon & Co., Richard F. Thibaut Inc., Wallpaper Mfrs. Assn.

PERHAPS one of the reasons that children love the story of the Three Bears so well is because the little wee Johnnie Bear has a little wee bowl of his own for his porridge, and a little wee chair and a little wee bed that are just right. The more accommodating we can make our houses for the children, the more independent they can be; and the more independent they are, the better for their development and the easier for the rest of the household. Of course, now-a-days, most of us do have bowls and chairs and beds that are just right for the little folk of the family, but there are many things about our grown-up houses that are needlessly difficult for them to manage.

As little people so soon outgrow things, any special arrangements that we make for them in the house, should be alterable ones—temporary conveniences that may easily be rearranged or discarded. There are many simple ways of making the house child-size. It is easy to arrange things so that even the very little ones can accomplish such feats as turning on the light and getting a drink of water, without having to ask for and await grown-up assistance. Our modern lighting may with safety be brought within reach of the child. If the lights turn on at the wall, a conveniently placed stool is all that is needed to make him independent of help. If they turn on directly at the socket, a chain with cord attached if necessary may be used to advantage. The little radium light tips, shining like will-o'-the-wisps in the dark, are sure to please and to help.

Now that there is no longer any danger of falling down the well when we go to fetch a pail of water, I wonder why it is that so many people seem afraid to let the children help themselves. A little spilled water is a simple affair to clean up, so simple that the children themselves can do it. Even a bad spill is not usually serious. We have found it entirely practical to give the children free access to water, so that they may wash, get a drink, and obtain water for their plants, their painting or other activities, without help. All that is necessary is a light, firm box in the bathroom for the children to stand on. We have towels and other equipment within reach, and a mirror hung low enough so that small boys can see just where the dirt is on their faces. We would like to have a low table or stand, covered with oilcloth, and containing one of the attractive sets of unbreakable bathroom utensils now made for children. But our house is too little for any such luxury.

A kitchen cabinet fitted out for small housekeepers should be in the playroom of every little girl—nothing could make her feel more grown-upish

What fairy tales this hand-blocked linen can tell the children! Here is Little Miss Muffet and Boy Blue, Bo Peep and a game of Ring-around-a-rosy that will be a source of unending joy to those little people so fortunate as to have curtains of this material or even a screen or chest covered with it

In these days of small houses, it is more than ever necessary to have a place for everything—if we would have anything in its place. But we cannot expect the children to help to keep things in order, unless we make it possible and easy for them to do so. If, for instance, the coat closet is crowded and the hooks up out of reach, we may as well expect to find the children's hats and coats all over the place. If, on the other hand, each child has his own hook placed at the right height, there is at least a chance that he may acquire the excellent and comfortable habit of putting his things away. If there is no good place to keep toys, we are going to be stumbling over toys in every room; if there is no good place to play, we are going to have playing all through the house.

There used to be attics and spare rooms and barns and any number of attractive places for play on stormy days. But to-day room to play indoors is an increasingly difficult problem. One may look through dozens and dozens of modern house plans, with never a sign of a playroom. There are children's rooms, to be sure; but a nursery, encumbered with the necessary bedroom furnishings, makes but a poor playroom. Then, too, a bedroom that is also a playroom, cannot be the simple place of repose that a child's sleeping room should be.

A FEW months ago, in the GARDEN & HOME BUILDER, there was shown in one of the house plans, a most delightful playroom. Situated on the ground floor, and opening out onto a porch of its own, it had a number of unusually interesting features. Among them was a little adjoining room marked "Toys". Of course the playroom in the large house is a comparatively simple matter to arrange—and what could be more fascinating than planning one, unhampered by thoughts of limited space and limited funds! When we live in a very little house, we may not be able to have our ideal playroom, but if we really want to, we can usually manage to reserve some space for the children's own.

There really was not room for a playroom in the little house we built, but we were determined to have one. So we marked the sunniest part of our upstairs "Playroom," and our clever and congenial architect managed to divide the remaining floor space into comfortable, though small, sleeping quarters for all. And we are glad, very glad, that we have that playroom. One feature that is especially commendable is a door leading to a covered balcony. This makes it possible always to have plenty of fresh air, though the rain may beat against the windows and the storm roar without.

In furnishing the playroom, one must guard against over enthusiasm. One simply cannot have all the enticing things made for children. It is well to leave as much floor space as possible clear for the playing of games and the building of villages and railroads, and to guard continually against the confusion caused by overcrowding. Most of the toys may be kept in cupboards when not in use. In our playroom, we have built-in shelves for books and some few toys, and we found it wise to make the shelves shallow—just wide enough for the largest picture books—as broad shelves so easily become cluttered. If there are children of widely varying ages in the family, the lowest shelves may be assigned to the littlest ones, and the upper shelves, well out of reach

This wallpaper, of which another section is given below, is suitable for borders or panels on the wall and in its action and breezy sense of play will be found most pleasing and inspiring

of baby hands, to the older ones. Somewhere in the playroom, there must surely be a place to keep odds and ends of costumes for dressing up as pirates, Indians, fairies and all the other characters so dear to the heart of childhood. A small steamer trunk in the closet serves the double purpose of holding the clothes and of

What fun to go to bed with all the characters of Mother Goose ranged in a border around the room and at just the right height to be seen while lying in bed, the foot and head boards of which are covered with joyous pictures

making a convenient step from which to reach the high shelves.

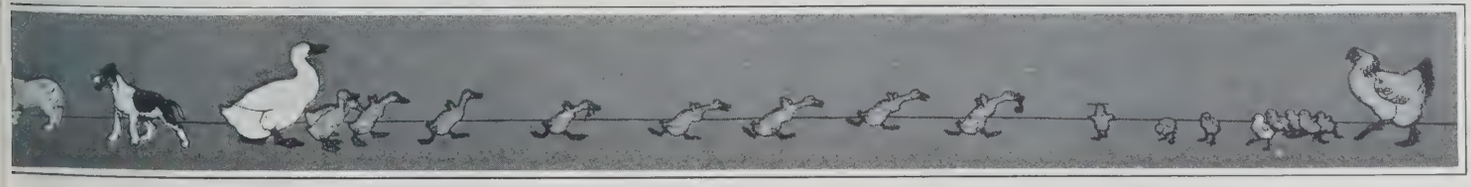
For children's rooms nothing could please them more than to have on their walls all the animals they love, as well as to have pictures of all their fairy tale favorites—the Three Bears, Goldilocks, Rose Red and Cinderella. Most of all do they prize these if they can have a hand in their making. This can so easily be done, that even the smallest of the little folk can help. Where the walls are covered with washable fabrics such as Sanitas, animals and other figures may be cut out of plain Sanitas, and tinted, or plain oil cloth may be had in all tones and colors. This lends itself readily to this cutout work. If desired, animals and figures cut out and ready to paste, may be obtained of the wallpaper manufacturers.

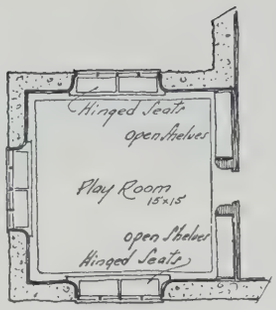
A VERY satisfactory work table for the playroom, may be made from an ordinary kitchen table. Saw off the legs to the desired height, and paint or stain it. We have found it well worth while, in painting children's furniture, to make a really good job of it. It pays to use the best materials and to take plenty of time. Several coats, well rubbed down, and then at least two coats of the best spar varnish, give a finish that will withstand many hard knocks. The children can often help with the work, though it is not easy to supervise help of this kind, but it is certainly worth the extra trouble. Then, too, the children take more interest in caring for the things afterward. The remodeled kitchen table makes an excellent ship or automobile when turned upside down.

Another useful piece of furniture, and one of the joys of childhood, is a treasure chest with lock and key. A chest holds all manner of things which get lost in the cupboard and overfill the shelves—all manner of things that are strictly one's own and not for general use. There is a certain air of mystery about the locked chest that children love—even Mother doesn't know what may be hidden away there! Treasure chests make very good window seats.

LET us bring to the playroom all the cheer and gaiety we can—all the favorites of fairy tales or story books. These may be kept solely in books if desired or put on walls, furniture, and in the hangings, just as the little folks themselves suggest. Let them decide for after all this is their room and it should please them. Sometimes it may be best to have plain walls and plain curtains, one or two plain rugs on the floor and one or two beautiful pictures on the wall.

A FIREPLACE in the playroom sounds attractive, but a fireplace means a whole extra set of "Don'ts." It means extra watch-



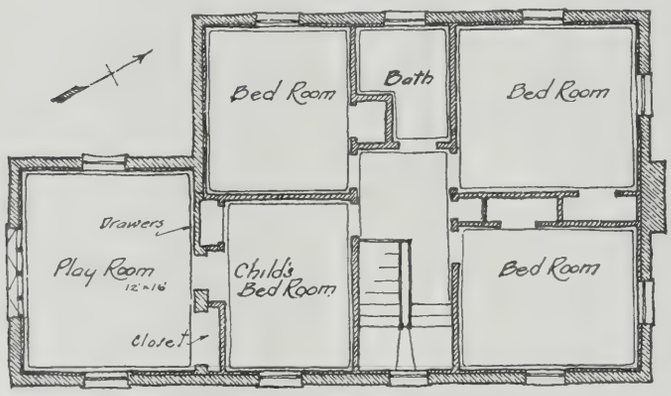


The kindergartner's Suggestions for the Play Room.

In this playroom the children's needs have been carefully considered. The seats are hinged to give them greater space for play, and there is an abundance of open shelves for toys and books

ing, even with very well trained children and a very good fire screen. After all it is just as well, and perhaps better, for the children to gather in the living room for their fireside story hours. We have our music in the living room too. Tucked away behind one corner of the piano, is a little stand with the instruments of our orchestra. There are bells and a snare drum, a xylophone, a horn, cymbals and castanets, to say nothing of various home-made instruments. We have high hopes that some day a violin will be added.

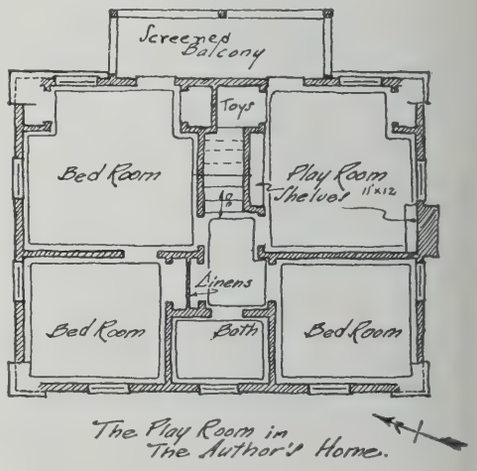
In winter time, it is pleasant to have a bit of garden in the playroom. A broad sunny window sill with a few hardy plants in rather small pots, serves the purpose quite well. If one wishes something more elaborate, there are many lovely window boxes to choose from in the shops. An indoor watering pot may be hung under the sill, and to the children may be given the responsibility of caring for the plants.



This Play Room was once a Second Story Porch

Houses are so often built just for grown-ups that these plans are particularly interesting since the right of a child to a play place of its own has been definitely recognized

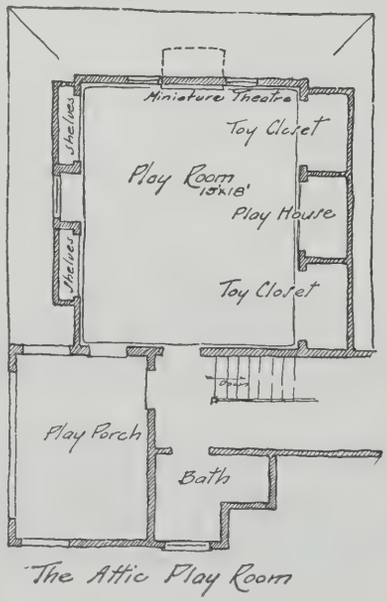
In any play room or nursery these true-to-life animals in black and white rubber tile will prove an endless source of delight, whether they be set in the floor, in tops of tables or chests or even in the wall itself



The Play Room in The Author's Home.

AS FOR possible pets in the house, dogs and cats of course head the list. There are many other interesting pets that may be comfortably kept in the house, provided a proper place can be arranged for them, and above all, provided that there is some responsible person to take care of them. There is many a useful lesson learned, and many a happy hour spent in watching and caring for animals, but children before the age of ten should not be entrusted with the care of their pets. Our boys have a comrade who is fortunate enough to live in a place that has a really truly pond. Many are the interesting little water creatures brought home for observation. We have, as our aquarium, a big, old-fashioned wooden wash tub, set on a low table. It may not be as pretty as a glass bowl, but it is much more like a bit of real pond—mud and all—and is consequently a more suitable home for our little guests. We have watched many interesting adventures in that tub. To see two crawfish dash out from beneath the rocks and engage in furious combat, is a thrilling sight! It is with never ending wonder that we watch the development of the frog, from the "cradle of jelly," through tadpole days, to the appearance of the real little frog. Of course one must know something of the food and habits of these little creatures before attempting to keep them in captivity.

As the children grow older, their playroom will develop with them. It will change from a room for play to a work room, a study, a living room of their own. At some time it is sure to be a theatre. And at no time will it be outgrown. For even after the children leave for new homes, the playroom may be kept for little visitors—small nephews and nieces and neighbors, and best of all, small grandchildren. Think of their delight on finding a treasure chest, packed full of the funny things that Mother or Father used to play with! Perhaps if there were more play-rooms to save for one's grandchildren, there would be less moving about from house to house, and more settling down in real homes, to live happily ever after.



The Attic Play Room

THE OLD FASHIONED EVER NEW PANSY

W. A. TOOLE

Of Course in This Hurry-Up World We Would Never Stop to Say Ladies' Delight, or Johnny-Jump-Up, or Love-in-Idleness, or Hearts'-ease

Photograph by the J. Horace McFarland Co.

IN FROM eighty to one hundred and twenty days after the seed has sprouted, depending upon weather conditions and the variety of Pansy planted, Pansies will start to flower. Taking one hundred days as a fair average, and remembering that the Pansy will do best in cool, moist weather, the time of sowing seeds may be varied to suit local conditions.

Generally, a longer flowering season will be enjoyed from spring sown seeds. The seed bed may be handled in the same way as described later for fall sowing, but, because of the cool, moist weather, there will be less chance of failure. If possible, sow the seed as soon as the soil can be worked over safely, though they may be planted up to the middle of May.

The early sown seeds will be ready to transplant during the early part of June and will start to flower in July, but will not be at their best until early September. They will continue to flower till the ground freezes solidly, and, if given a light covering of brush and coarse litter, will be ready to flower very early in the spring. In fact it may often be possible to pick flowers during mild spells in the winter. If the plants have been well cared for during the previous fall and not allowed to seed heavily or become weakened by insects, they will produce an almost unbelievable number of flowers until hot summer weather starts when they soon become unattractive.

EVERYBODY LOVES A PANSY

Sometimes the almost human impertinence that you can often translate into a Pansy flower in itself endears it. Young children are captivated by this quality, and the Pansy is many times the introduction to a garden love that endures through life

Pansies love a cool moist climate, plenty of fertility, and lots of cultivation. While they are perennial by nature, generally either the hot, dry summers or severe winters are too much for them after they have flowered heavily. Whereas in the Middle West, the summers are so intensely hot and dry it is best to plan the flowering season for the Pansy bed for either early spring or during the fall.

For early spring flowers the seed may be started in the greenhouse in December or January, if a greenhouse is available. A night temperature of about fifty degrees seems to suit them nicely and, if kept growing right along and transplanted when needed, they will flower early in April. A greenhouse is rarely available to the amateur grower, and so for him planting of the seed outdoors the preceding summer in open beds is the best plan.

Depending somewhat on local climatic conditions, the seed may be planted from the middle of July to the last of August. At that time of the year the weather is apt to be very hot and dry and germination will be poor unless extra care is given. It will pay to wait as late as possible for a spell of rainy weather, but sometimes the seed must be sown during dry weather in order to have the plants large enough before winter. Among the first precautions should be that of fresh seed.

Pansy seed more than eight months old is much slower to sprout and may fail entirely under unfavorable conditions. The next important point is plenty of moisture. It will pay thoroughly to soak the soil before planting the seed and then again after the seed is planted. Following this shade the soil with unbleached muslin, burlap, or a covering of grass or hay or lawn clippings. Anything will do that will check evaporation. The ground under the covering should be examined every day and should be well sprinkled as soon as it begins to show the first signs of drying. Remove the covering when the tiny plants come up through the soil. Replace the shade during the day if very hot and dry. During hot, dry weather an excessive amount of moisture seems to be necessary to overcome the effects of the heat. Once the seed has gone so far in germination as to burst the seed coat, it is very easily killed by drying out. Of course, these extraordinary precautions are not needed if wet, cool weather happens along.

We like to sow our seeds in well prepared beds, transplanting to give room when they are large enough. The little seedlings seem to do best in a somewhat sandy loam to which fertilizer has been added if necessary. The seed may be broadcasted over the seed-bed and after being pressed in with a piece of flat board, lightly covered with sifted soil; or, as we prefer with most kinds of seeds, they are planted in shallow furrows made by running the sharpened edge of a lath along the side of a board. For Pansy seed, the furrow is made about $\frac{1}{4}$ inch deep.

To sow, a pinch of the seed is taken between the thumb and forefinger and scattered thinly down the furrow. When the end of the row is reached, the little furrow is filled in with the fingers and slightly firmed by pressing with a piece of board. If more room is needed, a parallel furrow is made about two inches from the first. The advantages of this way of planting seed is that the depth of covering may be better controlled, it is easier to keep down weeds and, if a crust forms around the plants, it is less difficult to cultivate or stir the soil.

If the plants are large enough by the last of September or early October, it will be well to transplant the young plants either to their permanent location, or, if that is not convenient, to another bed or coldframe.

When winter comes and a light crust of frozen earth has formed, the Pansy plants may be covered. Pansies will stand a considerable amount of cold weather but will not tolerate smothering by ice or very heavy covering. Alternate freezing and thawing, many times repeated, is usually fatal. For these reasons, it is well first to cover with brush and then spread a light covering of coarse hay or a few leaves over the brush. The winter home of the Pansies must have good surface drainage to prevent ice pockets around the plants.

SEEING THE ITALIAN GARDENS

Villa Campi at Segna near Florence

THOUGH the gardens of Italy greatly influenced those of France, yet they differ from them on account of dissimilar climate and environment. The landscape of Italy lends itself to terraces and water falls; many of the trees are evergreen and include the precious Cypress, so dark, erect and massive; its waters gush in abundant natural torrents. In France, on the other hand, the land is generally level, the trees are deciduous, and the water-supply is artificial and costly. Out of these contrasting resources and limitations arose the diversity in styles of gardens in the two neighboring lands.

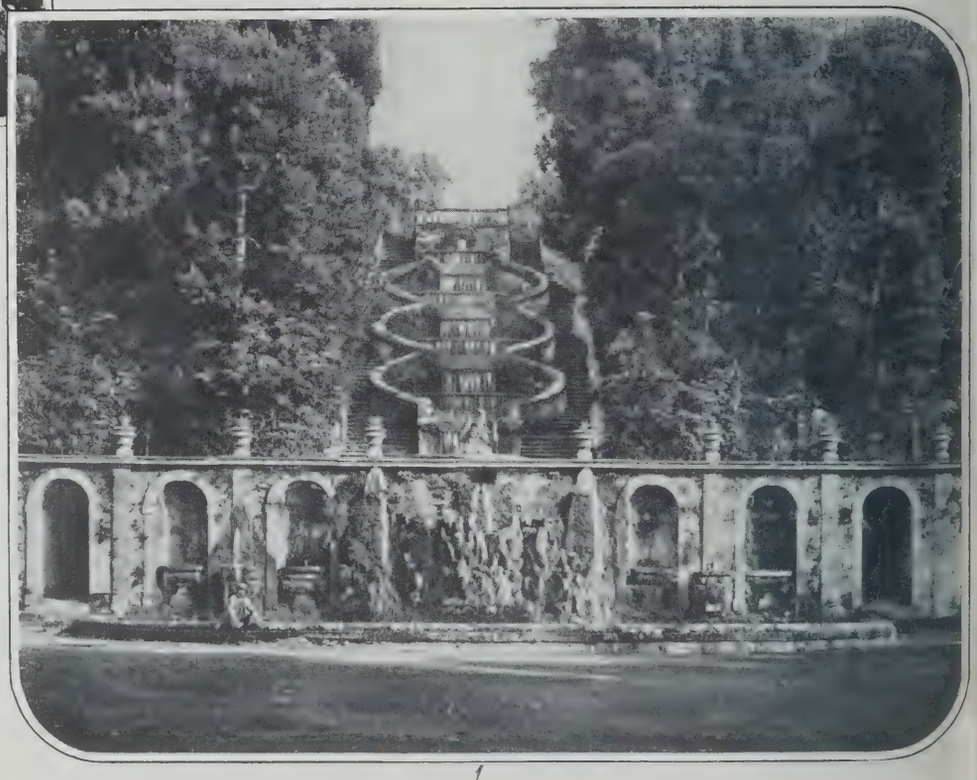
From the fall of the Roman Empire to the union of Italy under the present dynasty, Italy was split up unto small principalities, each with its own capital and proud aristocracies. Such were Milan, Genoa, Florence, Rome, and it is in the vicinity of these great cities that we find the stately villas, tokens of by-gone splendor. It is well for the garden pilgrim to reside in one or another of these cities for a time and to make excursions to the neighboring villas by trolley, carriage or motor, and, before starting out, to have a care to procure the necessary credentials for gaining admission.

If it be possible to arrive in Italy early in the spring, it is wise to land at Naples and see, near that city, the gardens of the palace at Caserta, a permit to visit, or "permesso" being first obtained at the Royal Palace in Naples. The Villa Floridiana, open on request, is reached by taking the funicular railway to the Vomero

Villa d'Este, Tivoli

Station close by it. A short excursion should be made from Naples to Ravello on the heights above Amalfi, to see the enchanting gardens there hanging suspended on lofty cliffs above the blue Mediterranean. The garden of the Villa Palumbo is open on request, that of the Villa Cembaloni may be seen by writing in advance to the owner, Lord Grimthorp, and that of the Villa Ruffalo by applying to Mr. Lacaita, or to the head gardener.

Next, the traveller should take the steamer to Palermo, obtain a permesso from the royal palace there, then a four-mile ride by motor and visit the Villa Favorita built in the Chinese style by Ferdinand I. Not far away, and on the same road is the Villa Castelnuovo, whose residence is occupied by an agricultural college. The grounds contain a large open-air theater but are not generally shown save to people especially interested in gardens.



Villa Torlonia, Frascati

A Condensed Itinerary

By HERBERT W. FAULKNER

EDITORS' NOTE: The matter of getting permission to enter some of these gardens must be attended to in advance if the visitor is to make the most of a limited time. Mr. Faulkner here gives the necessary information revised to the latest possible date.

Villa Torriganni near Lucca

Returning to the mainland we proceed northward as the spring advances and thus are able to see the villa-gardens in their best attire. The first step should be Rome, a city of palaces within its walls, and of villas round about. The gardens of the Corsini Palace, Colonna Palace, and Priory of the Knights of Malta are all open on request; that of the French Academy of the Villa Medici is open to the public Saturdays, morning and afternoon, from March 15th to May 15th. All these villas are within the walls of Rome.

Short taxi drives outside the walls bring us to the Villa Papa Julio, the Villa Chigi (admission obtained by letter from Prince Chigi), and to the Villa Doria Pamphili, a most impressive garden, under the management of the director of the estate to whom we must apply for a permesso at the Doria-Pamphili Palace in Rome. The gardens of the Pincian Hill and the Villa Borghese are close by the walls and but a short walk from the Piazza di Spagna, which all foreigners know. The Villa Borghese is recommended as a subject of study for Americans interested in garden craft, as it embodies features and solves problems applicable to country residences in our own land. The immense palace stands in the midst of a great park of Pine trees and each façade faces a rectangular space, one of which forms a noble plaza for approach of vehicles, the other three are arranged as formal gardens, with Box hedges, fountains and a rare and precious collection of antique marble statues, seats and bases, which, against their background of tall trees, form

Villa Falconieri, Frascati

Palazzo Corsini sul Prato, Florence

welcome pictures to look out upon from the palace windows. Many happy children animate the scene for here, as well as at the Pincian Garden, the grounds are open to the public every and all day.

An all-day excursion should be made to Frascati, either by motor or by steam train starting from near the Central Railway Station, called "Tram dei Castelli."

On arriving at the Square of Frascati, it is desirable to choose a guide, the least offensive one, and make a bargain with him for the day, as, at Frascati there seems to be a "gentleman's agreement" between all the guides and the custodians of most of the villas in accordance with which parties accompanied by guides are admitted, whilst those unguided are excluded under pretext of lacking the proper authorization. So the tourist will do well to bow to the situation and follow his guide, who will lead

(Continued on page 196)

WHEN FASHION LEADS THE GLADIOLUS

FORMAN T. McLEAN
Rhode Island Experimental Station

Little Suspected Influences at Work that Have Evolved the American Type to Fit Our Living Conditions

CHANGING styles have little affected the popularity of the Gladiolus. This adaptable flower has successfully conformed to each new demand, whether occasioned by the gradual change in fashion from the modest retiring dame to the bolder, more aggressive flapper, or by the minor annual or seasonal fluctuations in design and color schemes. It has kept its place in popular favor for nearly a century and has seen the rise and fall of many flowers, each in turn being eclipsed after basking for a brief period in the brightness of fashion's spotlight. When Dame Fashion dictates a modest and retiring demeanor the Violet, Lily-of-the-valley and Bluebell take precedence over the bolder Dahlia and Chrysanthemum.

The Gladiolus has met each new vogue with appropriate forms and colors to match it. Sometimes this has come about through sorts newly developed by the tireless efforts of the plant breeders, striving always to further perfect their flowers and plants, and sometimes through old varieties, the merits of which had been overlooked until the new demand arose. The continual efforts to introduce new and pleasing characteristics into the garden Gladiolus have resulted in a wonderful range of sorts, from the large, showy kinds to wee, dainty little curved stalks of blossoms; from wide open flat flowers to erect, tubular, or lily-like ones, or even to nodding and hooded forms, varying through almost all colors and tints.

The French varieties have for the most part contrasting colors. Jean du Taillis (right) is a deep salmon with the deep maroon throat blotches of the Lemoinei strain. Chateau Thierry (left) has a yellow throat blotch spotted and marked with red and is a characteristic Nanceanus variety

NATIONALITY EXPRESSED IN FLOWERS

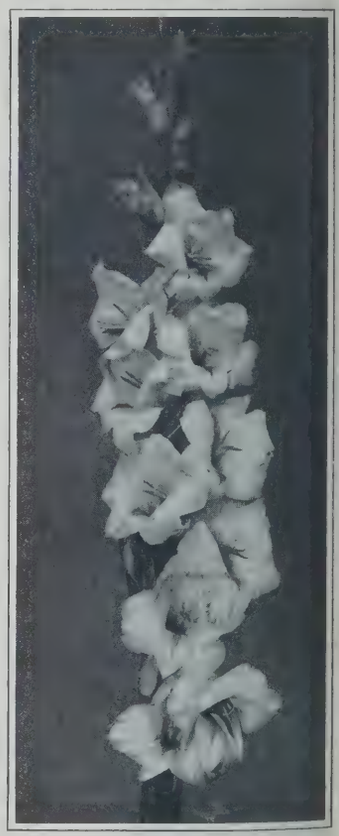
THE breeders have generally striven to meet the tastes of their countrymen, as well as to conform to the fashions of their period. As a result we have distinctive French, Dutch, and American sorts, each in some measure representing the characteristic tastes of their nationalities. In other respects each breeder has followed his own particular bent, some striving for general improvement along all lines, others keeping a more definite ideal always before them. Dame Fashion has always had the last word about the immediate popularity of the productions of each breeder. The success of each may be accurately measured by his ability to supply the people with what they want when they want it.

WHAT IS A SHOW FLOWER?

SOME styles, like the man's dress suit, seem to be always in fashion. Thus a truly show flower is ever in demand. One principal aim of Dame Fashion is to attract notice, the better to display merits or charms, and this same motive affects all styles. As a result a show or exhibition type of flower has a secure position amid changing fashions, and a number of Gladiolus breeders have devoted their main efforts toward perfecting this one type.

A successful show flower must present a massive display. To accomplish this, a Gladiolus needs to have large wide-open flowers closely spaced and many open at once on a long straight spike. The formula for the show flower is therefore simple and clear cut. The Dutch with their passion for neatness and regularity and their great skill in gardening have done the most to advance and improve this style of flower, both in Holland and in other lands to which they have emigrated. They have further elaborated on the requirements for it, giving preference to self colors in which the impression is of a single tone; for several contrasting tints would detract from the general mass effect. Further, the flowers must all

E. J. Shaylor rose pink, is one of the best of the ruffled varieties



Shakespeare, which is among the best of the old Gandavensis strain and has the long and fully opened spikes demanded for show Gladiolus. The blooms, however, are too small for present day standards

Byron L. Smith is one of the distinctly American large-flowered strain. Its pale lavender flowers have good keeping qualities and it is an excellent cut flower

duced a few, "Golden Measure" being the best known of theirs. Dark purplish blue "Dutchess of York" shows the characteristic long, many flowered spike; and Phipps' "Helen Phipps" is an even better example of the show type, though neither of them have the usual closely set and regularly arranged flowers, well illustrated by "Mrs. F. C. Peters."

The form of the show type has been quite fixed, and it has yielded little to the demands of changing fashions, except in varying colors to meet the current style. The effort of the growers has thus been mainly toward larger and larger flowers, with longer and longer spikes, having more and more flowers open at once. The principal recent advances have been in size and openness of the flowers and in better petal texture, which contributes toward keeping quality. Long, many flowered spikes were already well developed in the old Ghent or Gandavensis sorts like "Brenchleyensis" and "Shakespeare." But these have small and prevailingly striped flowers, and the contrasting colors detract from the mass

Purple Glory, like E. J. Shaylor (see opposite page) is typical of the modern ruffled varieties

face in one direction, so that all may be seen from the front.

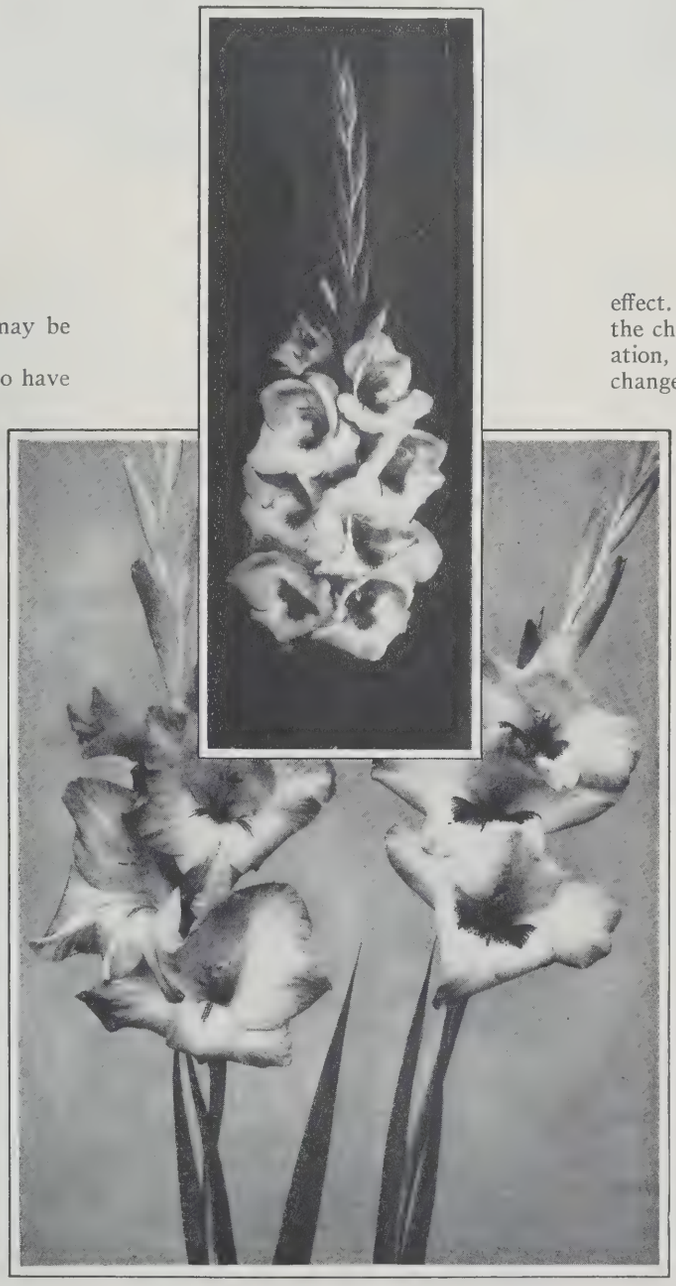
Among the many plant breeders who have contributed toward this type only a few of the most outstanding may be mentioned. Of the Hollanders: Veltuys with his scarlet "Liebesfeuer," dark red "Goliath," yellow "Flora" and salmon "Early Sunrise"; Van Deursen with "Le Marechal Foch"; Heemskerk with "Jacoba van Beijeren."

Pfitzer in Germany with white "Europa" and yellow "Schwaben" both of which have stood the test of time.

In the United States, Diener has been the most consistent producer of this type of flower, of which his deep rose "American Beauty," pink "W. H. Phipps," and salmon "Richard Diener" are good ones. Other American breeders have produced some fine ones, as Coleman's new salmon-pink "Mrs. P. H. Sisson," which took first place at the New York Gladiolus Show in 1924; Fischer's lavender "Mrs. F. C. Peters"; Hoeg's "Gold"; Salbach's yellow "Claremont"; Metzner's "Red"; Betscher's "Crimson Glow" and Joerg's "White."

Errey in Australia has produced some good show sorts: "Ensign," "Averill," "King Pearl," "Chancellor" and "Leura."

In Great Britain, Maier of Edinburg has sent out several excellent show sorts, while the more widely known firm of Kelway has pro-



Mrs. F. C. Peters above; below, at left, Sheila, one of the earliest flowering Gladiolus, and, at right, Captain Boynton with its deep lavender blotch which has both the size and open form of the American large-flowered strain

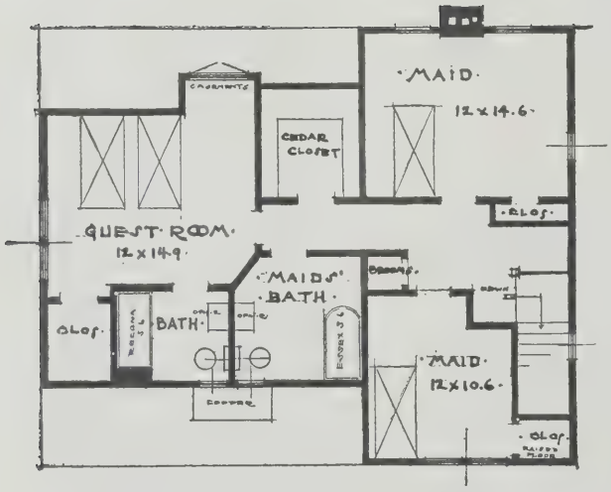
effect. Fashions in colors have conformed to the changing styles in dress and home decoration, and the popularity of flower colors has changed with them. The widely heralded "Tut-ank-amen" discoveries brought with them designs and color fashions borrowed, from the Egyptians, and so smoky old rose and other odd shades have been in demand. The old sort "Desdemona" and the newer "Rose Ash" are now popular because of the very colors for which they were condemned in the past.

CONTEMPORARY ARCHITECTURE INFLUENCES SIZE

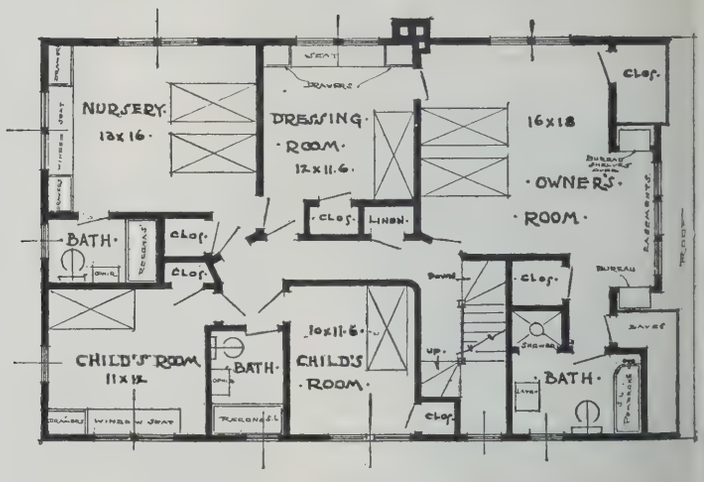
WITH the modern tendency toward smaller houses, the small or miniature Gladiolus is probably destined to greater popularity than it now enjoys. This type of flower is admirably adapted to small low vases and small spaces. There are two principal groups of miniatures; the Nanus or "Baby Gladiolus" and the smaller of the Primulinus hybrids. The Nanus sorts were among the first of the hybrid Gladiolus, but are unsuited for general garden culture in most parts of this country because they must be planted in the autumn and they will not stand freezing. They are extensively grown on the Pacific Coast and and are also popular with florists for forcing. The small Primulinus, of which Fischer's yellow "Primadonna" is a typical sort, are easily grown.

(Continued on page 188)

TWO LONG ISLAND HOUSES—BOTH C



It seems hardly possible, looking at the outside of the house, that the attic provides all these rooms



The second floor is given over entirely to the family needs—five rooms and three baths

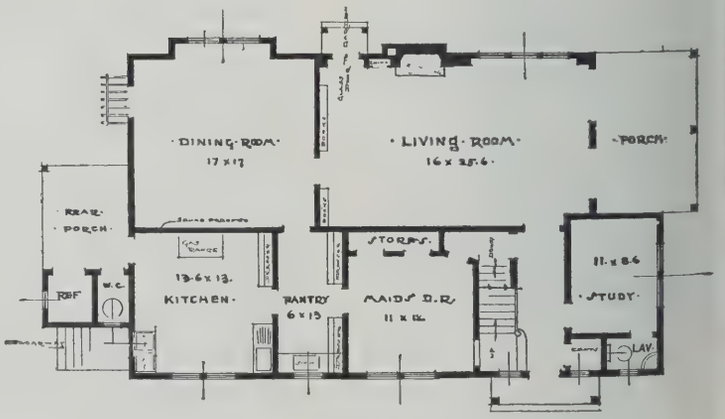
The Home of

Mr. Walter B. Eaton

Cedarhurst, L. I.

Designed and Built by

Julian Hinckley



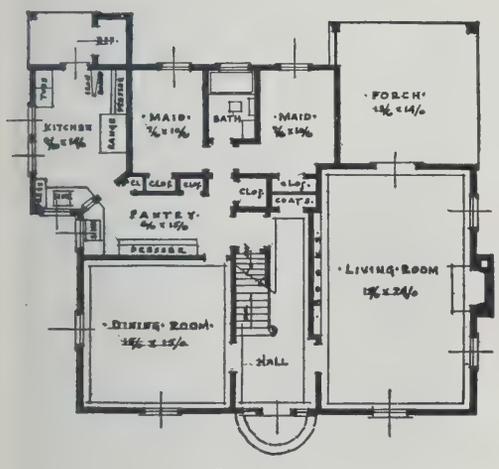
On the main floor, the location of the study near the main entrance permits the use of this room to excellent advantage in receiving guests. The maids' combined sitting and dining room is well placed

THEM BIGGER THAN THEY APPEAR

MR. HINCKLEY'S two achievements here shown bear out remarkably well his contention that "a house looks better if it can be made to seem smaller than it really is—the smaller the better. The Victorian ideal was to make a small house look big."

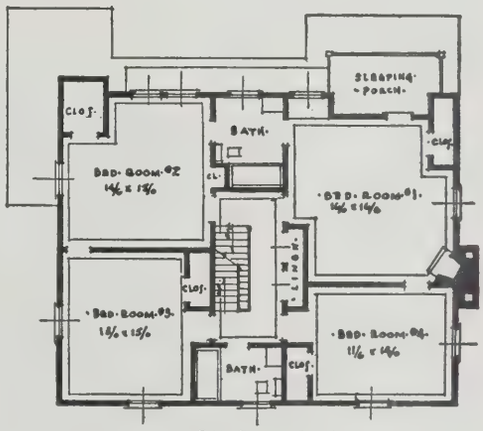
In the Eaton house the effect sought has been secured by bringing the roof down in a long sweep to the porch eaves, and by a judicious subordination of the upper dormers. The grouping of windows also contributes to this small-scale impression. It is decidedly surprising to find six master bedrooms, three master baths, two maids' rooms, a maids' bath and maids' dining room under this unpretentious roof.

The Dimond house with its modest pretense to a story and a half reveals four good bedrooms, a sleeping porch, and two baths on the second floor, and an unusual maids' suite on the ground floor.



FIRST FLOOR PLAN

The long sweep down to a lower level in the rear covers the main porch at one side the service porch at the other and enclosing two maids' rooms and a bath between —a distinctly clever adaptation of the central hall plan. By allowing the upper hall to depend for its light upon open doors of the various rooms surrounding it, the utmost economy of space is achieved



2ND FLOOR PLAN

The deep frieze of flat boards, flush-jointed, and the simplicity and restraint in the number of windows and their spacing are important factors in the exterior appearance

The Home of

Mr. Douglas Dimond

Cedarhurst, L. I.

Designed and Built by

Julian Hinckley

AMONG OUR GARDEN NEIGHBORS

Readers' Open Column for Exchange of Comment and Experience

"Fiat justitia, ruat coelum"

Is This a Substitute for Narcissus?

TO THE EDITORS:

In view of the difficulty in securing Narcissus bulbs next fall, a charming substitute will be found in Lily-of-the-valley. A friend having successfully raised them in the house for two winters, I decided to try them. When I bought the fiber to plant them in I told the clerk that I expected to take up some roots in the garden. He said it would be impossible to make them bloom, that they should be imported, three-year-old pips, and frozen. When I told him my friend's experience, he said, "I never heard of such a thing. It would require a temperature of 85° to force them." So with some misgivings but a stronger determination than ever to experiment for myself I went to work.

At this time, the middle of December, the ground was frozen an inch or more, and I took up enough plants for two dishes. They were planted in fiber, given a good light and a little sun and kept in ordinary house temperature.

In about three weeks they started to grow rapidly, were soon in bud, and now, January 22nd, one dish of Lilies has been in bloom for over a week, and the buds in the other dish, which contains the smaller pips, are almost open. They are very fragrant, and the leaves a good color. The fiber evidently furnished the right elements. They make a very dainty centerpiece for the table, and are just the right height, while the Narcissus is really rather tall for such a use.

It would be interesting to hear from any of the Garden Neighbors who may have experimented with the Lilies. Of course, I hope the embargo on Narcissus will be lifted, but it will not trouble me for another year at least, as I am completely satisfied to use the Lilies-of-the-valley as a substitue, and hope others will meet with my success.—LAURA H. COLEMAN, *Narberth, Pa.*

Blue Delphiniums and Yellow Gladiolus In Happy Combination

TO THE EDITORS:

There has been much discussion, pro and con the Primulinus Gladiolus. However the discussion may end, there is not the slightest doubt as to the exquisite gracefulness of this particular variety. The flowers cling to their stem as lightly as butterflies, and indeed look very much like golden butterflies poised at the chalice of a flower. The Primulinus and Primulinus Hybrids need a foil to bring out their particular type of beauty, and the most strikingly beautiful foil I have found for them is another flower of much the same lovely airiness—the Delphinium.

I have a plot devoted to Delphiniums which are all in shades of blue, light, medium, and dark; and no others are tolerated in that particular plot. I arranged them far apart so that there might be plenty of room for Gladiolus. I planted only yellow Gladiolus, the lovely Primulinus varieties, and what a reward was mine! Certain yellow Roses and blue Delphiniums are lovely, but the combination of Delphiniums and yellow Gladiolus is something that every Neighbor would enjoy.

I did not plant my Primulinus in straight and staid rows; I scattered them happily about, one here, three over yonder, two just there, some snuggled so close to the Delphiniums that the fern-like foliage and flowers of the Delphiniums were closely mingled with the sword-like foliage and yellow butterfly flowers of the Primulinus. Perhaps I might have had larger bulbs and more bulblets had I planted my Primulinus otherwise, but I wanted them just so for aesthetic reasons. I gave the entire plot plenty of fertilizer, using well-rotted stable manure in the spring, then mulched with poultry manure during the summer. Careful cultivation and plenty of water were given, and at digging time I was well pleased with my crop of bulbs.

The Delphiniums bloom all summer long, and by careful selection and cultivation the Primulinus may be coaxed to bloom through quite a long season.—MRS. J. C. CLARK, *Pocatello, Idaho.*

Death to Cabbage Maggots and Cutworms!

TO THE EDITORS:

Last spring I discovered so many little worms, cabbage maggots, on my Cabbage that I thought I could not raise the plants. I dissolved one ounce of corrosive sublimate in a small amount of boiling water and then added this solution to ten gallons of water. I poured a half teacupful at the base of each Cabbage plant soon after transplanting, and repeated the same process ten days later. I am never bothered with those little worms now that I use this solution.

Every year I hear so many reports of cutworms attacking Cabbage, Onions and other garden crops. For killing such worms we use a poison bait made by mixing up 25 pounds of bran with one pound of white arsenate (or paris green). Enough water is added to make the mixture wet but not so it will run. To make the bait attractive we add about two quarts of cheap molasses. This we scatter late in the evening because cutworms feed at night. We put the poison carefully in small quantities near each plant, as we do not have a large area to cover.—MRS. M. A. BAKER, *Cooper, Texas.*

Campanula Isophylla in the North

TO THE EDITORS:

I was interested to see the letter in your February number (page 443) asking about Campanula isophylla and where it can be obtained. R. & J. Farquhar list this, as do Breck's Nurseries.

There are some famous plants of this to be seen in a barber's shop in Gorham, New Hampshire, where I have admired them every autumn for many years. These have been illustrated in various periodicals. Last September I saw them in full glory (and indeed it was full glory) in the window, and asked what treatment they were given. The answer was "plenty of sunlight and water." This was the more interesting as the shop had merely a western exposure.

As I did not want to try to bring slips down from the mountains I purchased a plant from Farquhar in November, 1924. It was very pretty and was in bloom. I was so pleased with it that I bought several for Christmas presents for friends. I can only give an account of my own and that of one which came back to me for care when the friend to whom I gave it went abroad in the spring. As they were of the trailing habit I did not think they should be set in the ground in the summer, but tried them in various situations outdoors. They seemed to be a good deal like the famous animal who could not live on land and died in the water. At any rate I had no success with them and both are now dead. I have seen a fine plant in Winchendon, New Hampshire, still blooming indoors in November in a hanging basket.

One of my friends has also tried them and finds that by coddling and fussing over one he got some blossoms. But he got them in the summer when he had taken the plant up to the neighborhood of Gorham. He thinks they do not like furnace heat.

As to the Christmas-rose (Helleborus niger),

Breck's Nurseries also carries that. I have some which were put in my garden about four years ago. From former experience with this I think it one of the "choosiest" of plants, but it does seem to like a somewhat northwestern exposure. My four clumps are partially shaded by Snowberry bushes, getting only a little sun during the summer, but plenty in the fall when leaves are gone. They have increased and bloom mightily in November and December. The blossoms pretend to wilt and lie down flat when there is a freeze but rise right up again after a thaw. They do not ordinarily fade, but turn pink and then green and stiffen and dry.—Lois Lilley Howe, *Boston, Mass.*

"Sow Seed in Heat"

TO THE EDITORS:

In the February number, the article "Sow Seed in Heat" (page 434), was a particular disappointment to me. There was nothing in it that is not known by every one that has ever had the smallest garden. There is an exact science in seed germination and I had expected to learn a little of it in the article. However, if I live long enough I will learn it all by experiment.

Of the four principal functions of seed germination the conditions of soil are best understood. The next two are heat and moisture and are less understood by all amateurs; where drainage is good there is little to fear from excess moisture, provided there is sufficient heat. Now, what is sufficient heat? Some seed will lie in the ground until they get it and others will rot in the ground if they don't get it; some seed will lie in dry ground until they get enough moisture to germinate and keep on growing, others will germinate in the dry ground and die for the want of moisture afterward. Light, the fourth item in growth, really plays no part in seed germination and is not required until leaves begin to form. Heat, heat of the soil, that's the thing that puzzles us, principally in tender perennials. It appears to me that all seed will germinate in a given length of time providing the conditions are perfect for the particular kind of seed in mind, each kind a different length of time of course. What is this length of time?

I have never been able to hold a soil temperature in my hotbed above 65° and there are many, many seeds that have been tried year after year that have never germinated in it. Always the easy-to-grow kind do well, and they are the soft shell or husk varieties. The hard shells fail me; why? Poor seed sometimes perhaps, but not always.

I would like to hear more about heat and period of germination.—Thomas S. Livsey, *Minonk, Ill.*

—The article in the February number was designed simply to interpret the meaning of the cultural phrase which, of course, is quite well understood by those who have had much experience in garden work, but there are thousands of others who, according to the correspondence we receive, are bewildered over the "first steps."

The difficulty in germinating certain seeds may not bear so much on the heat as you seem to think, but rather on moisture. The difficulty with all hard shell seeds is that they lose moisture in storage and before germination can take place this moisture must be replaced. It is for this reason that large hard seeds are stratified over winter, and unquestionably, there will be a great advantage in stratifying smaller seeds, if hard shelled, of herbaceous plants. This is exactly what happens in natural conditions. If the drying has been too thorough the shell gets case hardened and heat then applied may start and kill the embryo before the shall becomes soft enough to break. —Ed.

An English Cottage Garden in America

TO THE EDITORS:

It is with a delighted surprise, that we discover a little English cottage and garden in America. It sits half way up a steep hill, this little green cottage, and would scarcely be visible but for the clustering trees which form a background for its tiny perfection. The glowing little garden, the miniature house, and the dove-cote behind are all on the same diminutive scale.

A path leads invitingly to a gate which opens into a flagged area in front of the house. Once inside this space we leave America behind, in spite of the fact that the owner has built his cottage of wood instead of stone or brick. The flowers, crowding in such friendly profusion about the house and doorstep, call vividly to mind the cottages of England.

A hedge of Cedar trees, kept pinched back to Noah's Ark proportions, forms the front boundary of the flagged area, and at one end, where the house nestles into the hillside, a dry stone retaining wall has been built against the slope. Between the stones gray Cerastium and Clove Pinks find foothold and bloom luxuriantly in their sunny shelter.

At the other end the flagged space opens into a plot which runs between double flower borders at the lower side of the house. As an entrance feature, and as accents at intervals in the borders, there are pairs of Symphoricarpos racemosus, planted opposite each other and clipped to form square columns of green. Lest this should sound terrifying in a little cottage garden I hasten to add that the formidable name means only our old fashioned Snowberry bushes, but the skillful topiary work which has shaped them from infancy gives them distinction, and suggests many possibilities among our common hardy shrubs.

Against the cottage itself white Climbing Roses really climb and bloom, and all through the borders flowers grow as though they were thoroughly enjoying life, and not in the lank, spindly manner they are so apt to assume when planted close around houses.

In May and June the borders are full of fine upstanding Iris, good Peonies and Cabbage Roses, yet in July and August they seem just as well filled, with Pinks, Asters and Phlox. It is hard to say when the little garden is at its best, for where flowers are tended with devotion they are always lovely. But perhaps the happiest combination comes in July, when against a background of white Climbing Roses a magnificent clump of Delphiniums, intensely blue, reaches half way up the eaves of the cottage, while at either side, and crowding close about are Madonna Lilies. — Julia H. Cummins, *Barneveld, N. Y.*

The flower borders in the little English Cottage garden (see Mrs. Cummins's letter above) where in their season Iris, Peonies, Roses, Pinks, Asters and Phlox grow luxuriantly. Below, Delphinium and Madonna Lilies, blooming in July, close to the cottage windows

An Incubator Propagating Bed

TO THE EDITORS:

In working with our garden we finally came to the point where we thought we wanted a propagating bed, with heat beneath it, to root cuttings that we found difficult or impossible to start in the usual way, but we did not feel that we needed one badly enough to build it with hot water pipes beneath like the commercial propagators.

The problem was finally solved with the expenditure of very little time, and almost no money and has filled our needs satisfactorily for more than two years.

We took a small poultry incubator, removed the wooden top and replaced it with a square of sheet iron. Sides of wood five inches high were built on this. Holes were bored through the sides to allow for drainage, as we did not wish to drain into the inside of the incubator. The bottom of the bed was filled with broken crockery and pebbles for an inch or two and the rest was filled with sand.

The regular kerosense lamp of the incuba-

tor was used for heat. A thermometer was kept in the sand of the bed. With the thermostat of the incubator properly regulated, the heat could be kept within a degree or two of what was wanted.

This bed was kept shaded in our little greenhouse. If it were kept in an open room it would probably be better to cover it with glass to keep the top of the cuttings in a more humid atmosphere.

We experimented with a wide variety of plants and we tried them at unseasonable times, partly because we knew no better and partly because we took cuttings, whenever we were able to secure them. The percentage of strikes would not have satisfied a professional propagator, but we enjoyed trying any new plant we found. Many of the plants tried could have been rooted without heat but we used the bed for nearly all of our cuttings after we had it in operation.

Living near the Rose City—Portland—Roses of course made up much of our experimental material. We had always supposed that the best way to root Roses was to make cuttings in winter and place the cuttings in the ground in the spring. Our success was not anything to enthuse over, though some varieties did nicely this way. We found that by taking soft wood cuttings in June when in bloom or shortly after that we were successful with many other varieties. Some soft wood cuttings rooted in two or three weeks.

Shortly after we had built the bed, Mr. D. Hill, the evergreen grower of Dundee, Ill., paid us a visit, and although the size of our bed afforded him considerable amusement, he was interested in the operation and admitted it was exactly suited to its purpose. He suggested that we try conifers. Up to that time, we were ignorant of the fact that they could be grown from cuttings!

Broad-leaf evergreens and conifers seemed to root best from cuttings taken in the late summer and fall. Daphnes and Camellias taken in September rooted with a small percentage of success; Holly considerably better. I believe that we should have had these cuttings earlier in the summer, though we did root some Daphnes when they were in bloom in the very early spring. Boxwood surprised us with the readiness with which it rooted. We have since found that Boxwood roots nicely out of doors, taken in September and that Holly will root here out of doors if the cuttings are put in the ground in the late winter.

In the vicinity of Gresham, Ore., there grows a variety of the Western Cedar (Thuya plicata) pyramid shaped with dense foliage. We now have several little trees of this from cuttings. The cuttings were taken about the first of October but, as I remember, they were very rebellious about starting roots. We had them rooted by April, though that winter, for a couple of months, we had no heat under the bed.

Oregon Grape (Mahonia aquifolia) is the most prized of our native shrubs on account of its holly-like, evergreen, leaves and dense growth. While it grows in abundance in our woods and along the roadsides, it is very difficult to transplant, as the roots are large and meander off in most uncertain directions. We rooted a small percentage of cuttings taken in August. With more experience it is possible that a better showing could be made.

More experimenting was done with Walnuts, Filberts, and Chestnuts than with any other class of plants. The only success we had was with Filberts and we found that cuts of somewhat ripened green wood, taken in summer, would root rather easily.

With Filberts we found that the condition of the wood, not the time of taking cuttings, was the important factor. A Filbert tree in July would have only a few twigs that were ready to root.

To propagate some Delphiniums that we especially wanted, the plants were cut off after they had blossomed and the ground was given a thorough soaking. The new shoots coming up from the stubs were taken as cuttings and rooted in a couple of weeks. We had always depended upon seedlings but now have a means of propagating from our best plants.

During the past year the bed was in use all of the time, the lamp turned low, giving a very mild heat, about seventy-five degrees. Some cuttings have been put in nearly every week and others taken out as they rooted—or didn't. There have been enough successful to keep up our interest. We were especially pleased with a cutting of an ornamental Chinese Bamboo that was rooted after being in the bed almost a year. It was taken out in March when we changed the sand in the bed. We had given up hope for it as it had dropped its leaves but found it finely rooted and during the summer it put out new little branches. It was a plant that the commercial propagators had been unable to root.—Carroll D. Bush, *Portland, Oregon.*

The Musk and other Fragrant Plants

To the Editors:

On page 363 of your January, 1926, issue, you write, "Can any one supply any facts concerning the old-time fragrant Musk that is apparently almost lost to cultivation?" Replying thereto I will say that as a boy, over fifty years ago, I grew it and that I do not believe that there is any change in the plant, but that some mistake in treatment or in the selection of the earth is to blame for the lack of fragrance. Too much coddling and too little moisture and possibly the lack of lime in the soil. One seedsman lists it as "a tender annual"; another as "a half-hardy annual"; and still another as "a half-hardy perennial." It is a true perennial, but may, of course, be grown as an annual. If there is anything tender about it I have not yet discovered it.

Thirty years ago while doing business in Saint John, New Brunswick, I spent a holiday at Saint Martins, Saint John County, N. B., and I saw a brook near that town with a broad band of "Cloth-of-Gold" on either side created by Mimulus moschatus. One of the finest ways of growing Musk is in a bowl of water, when it will completely hide the bowl and its own foliage with a mass of bloom. Failing the true musk fragrance from commercial seed, I suggest getting seed from Saint Martins where I doubt not it still grows in great profusion; and also growing it in earth that is retentive of moisture, say silt or leaf mould.

In her article "Fragrance in the Garden" (January, 1926, page 361), Mrs. Fox says: "The hedges could be of Spice-bushes and wild Roses and the shrubbery beds of Sweet-fern, Clethra, etc." While walking in Kew Gardens long ago a delightful perfume met me and I soon traced it to a large bed of the Daphne cneorum, a woody undershrub without which no fragrant garden will be complete. Daphne mezereum, growing in wild profusion at Round Hill, Annapolis County, N. S., makes its presence known at a great distance when in bloom during May, and is, I believe, our first fragrant shrub. The bloom is followed by red berries which give it quite the appearance of Holly. It grows three to four feet tall and the same diameter.

If near the seacoast and suited as to soil, Candleberry, Wax Myrtle, and Myrica cerifera would form a most delightful hedge. One can drive dozens of miles in Digby County, Nova Scotia, where it grows wild on either side of many roads in the greatest luxuriance. For a climber, Apios tuberosa, where suited as to soil and moisture, will climb twenty feet up a tree. It grows quickly and flings downward graceful festoons of beautiful pea-like blooms in two shades of chocolate, with the delightful fragrance of English Violets. It is hardy as an Oak, but dies to the ground each winter and does not show up until about June first. It is highly prized in England where it is grown as a pot plant and trained on large balloon-shaped wire frames. It requires deep, rich, sandy loam or rotted turves, well rotted cow manure and sand in equal proportions; is worth all of the trouble and grows in full sun or partial shade.

Mignonette, Heather, Evening Stock, Matthiola bicornis and Meratia praecox are other lovely plants for the fragrance garden.—Walter Scott, *Owen Sound, Ontario.*

For the Mid-summer Bare Spot—Cosmos

To the Editors:

My first knowledge of the value of Cosmos as a "filler" came by chance. Some wind-blown seed must have lodged at the base of a Pillar Rose, for a volunteer plant appeared there, and I left it alone. The Rose had its season of bloom and nothing more was expected of this particular garden spot till the following year. But the young Cosmos grew apace and, as it proved to be the early-flowering variety, in a few weeks pink blossoms were again appearing among the Rose leaves. It continued to bloom till frost, and scattered seed enough for successors another year. Cosmos is very shallow-rooting and did not interfere with the Rose at all.

Every year I have quantities of self sown Cosmos, and I have found them very valuable to transplant into any vacant corner. I know of nothing which transplants more easily. One does not even need to dig them. Actually, they may be pulled up with no soil adhering, and they will go on growing wherever they are set without resenting such rough treatment. When the Poppy bed is shabby, it may turn over night into a bed of Cosmos budded or in bloom. Any plant whose foliage disappears (bulbs like Tulips, Bleeding-heart and other early spring bloomers) are much improved by an overplanting of feathery Cosmos. It helps out wonderfully in the garden. The seed once sown every year brings plants for all emergencies.—Miss A. H. Botsford, *Edgemoor, Del.*

The Temples of the Gods have crumbled —but the Gods live on in this charming MODERN TAPESTRY

THE ancient shrines of the gods are fallen into ruins. Delicate flowers have forced their way between the great marble plates, and vines encircle the age-ivoried columns. But the gods will live forever—in literature, in art, in every form of culture.

Their loves, their wars and their exploits have been the inspiration of some of the finest tapestries ever given to the world. Designed by the greatest artists of the past and woven on the finest looms, many of these are now in royal collections and in museums.

BASED on these rare old works of art, the tapestry shown here sweeps aside the centuries and brings to us the greatest of the deities in the height of their splendor: Mighty Jupiter, and Juno, his jealous queen; Venus, the Beautiful, sung by the poets of many ages; and other divinities who in a pagan past inhabited Mount Olympus.

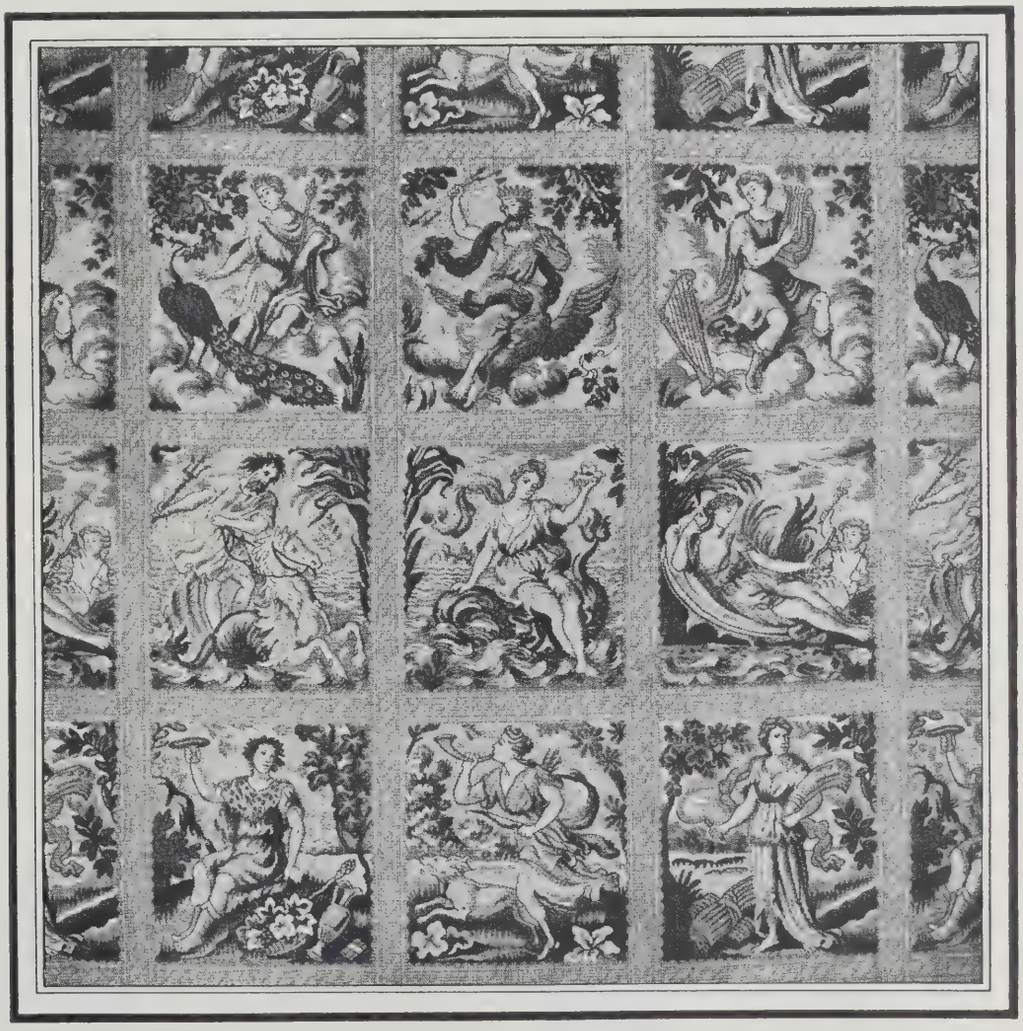
Finely woven in softest wools, the colors are subdued as though by age. Threads of gold, interwoven in a background of neutral tones, outline each figure and form a pleasant contrast.

And of particular interest—because of their wholly modern conception—are the bands of gold which run the length and breadth of the tapestry.

This tapestry, and other attractive Schumacher fabrics, may be seen by arrangement with your own upholsterer, decorator, or the decorating service of your department store.

Let your furnishings reflect the newest and most interesting decorative ideas—combining professional judgment with your own individual tastes. How you may do this with no additional cost to yourself, is explained in a new booklet which we have prepared, "Your Home and the Interior Decorator."

This book, beautifully illustrated will be sent to you without charge upon request. Write to F. Schumacher & Co., Dept. D-4, 60 West 40th Street, New York, Importers, Manufacturers and Distributors to the trade only, of Decorative Drapery and Upholstery Fabrics. Offices also in Boston, Chicago, Philadelphia, Los Angeles and Paris.



This tapestry which so beautifully combines the glories of the past and the arresting art of the present day, is woven in soft colors on a cream background interlaced with threads of gold

The effect of spacious dignity and restful repose in this living-room owes much of its charm to this delightful tapestry-covered couch

Schumacher fabrics with their wealth of designs and colors in velvets, in damasks, in brocades, chintzes, linens and tapestries, offer the widest latitude for interesting decorative achievements

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The National Garden Association

Formed to promote the annual observance of National Garden Week

LEONARD BARRON, F.R.H.S., President

Honorary Vice-Presidents: J. HORACE MCFARLAND, MRS. FRANCIS KING, MRS. RUSSELL TYSON, MRS. THOMAS G. WINTER, MRS. SAMUEL SLOAN, MR. FREDERICK NEWBOLD, MR. ROBERT PYLE, MRS. JOHN D. SHERMAN.

Coöperating Societies: SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS; NATIONAL PLANT, FLOWER AND FRUIT GUILD; AMERICAN DAHLIA SOCIETY; AMERICAN IRIS SOCIETY; ONTARIO HORTICULTURAL ASSOCIATION; AMERICAN FORESTRY ASSOCIATION; WOMEN'S NATIONAL FARM AND GARDEN ASSOCIATION; WILD FLOWER PRESERVATION SOCIETY; NATIONAL HORTICULTURAL SOCIETY; THE AGASSIZ ASSOCIATION; THE SCHOOL NATURE LEAGUE; SOCIETY OF LITTLE GARDENS.

IN CARRYING out the broad national program of National Garden Week, there must come to the members of each garden club a vision of what they can attain, of the worthwhile things they can do in their own gardens, their own neighborhoods and their town. It is this individual effort on the part of each member of each club that will aid in turning all of our waste places into beauty spots, in saving our forests and wild flowers and in arousing our cities to the need of playplaces and parks.

There is no club that can not be an important part in this great national work that is given such impetus each year by the many different ways in which National Garden Week is observed. In this, there is nothing more inspiring than the stories of the activities of many garden clubs.

The garden club of Des Moines, Iowa, realizing the great waste in cutting Christmas trees has so earnestly advocated the growing of living Christmas trees that Des Moines is now known as the "Christmas Tree City." This city conducts a yearly house cleaning on its own account. Indianapolis, Indiana, with its fine garden club, also has a yearly clean-up campaign in which every civic body and department takes part. If this can be done in these cities, why not in every one?

The Rochester, New York, garden club is sending a young woman to a horticultural college to be trained as a practical gardener, which is just one of the most interesting of these stories.

In Chicago, Illinois, there is, as far as we know, the largest garden club in the world, the Utility Home Garden Association, its members being the employees and staffs of five of the leading public utility companies. The account which we are so glad to publish was sent by Mr. L. W. Nack, who is the secretary of this club and one of its founders:

"In the spring of 1920, three of the home garden enthusiasts of the Commonwealth Edison Company, Herman Ordas, H. T. Sparf and myself realized that great good would result from the development of a garden club within our Company. This we formed and held our first flower show that spring. Our exhibits numbered less than sixty in all and barely covered the top of three ordinary office tables. The fall show doubled in size and in the quality of exhibits. The following year, an association of garden clubs of five public utility companies was effected. Since that time our spring and fall flower shows have been held regularly and in each case doubled the number of exhibitors and entries. There was also marked improvement in the quality of the entries. Approximately 20,000 employees of this group of companies are eligible to exhibit at our shows.

"Through the combination of these groups of flower lovers, we have found sufficient numbers who have specialized in growing Roses, Dahlias, Gladiolus, Peonies, Iris, Water-lilies, etc., so that membership affiliations with the various special flower-societies have been made. Garden books by authorities on specialized subjects of interest to our members have been placed in our library which is maintained for their benefit.

"This organization of garden enthusiasts have developed into a powerful buying factor, astonishing wholesale rates on bulbs, roots, trees, shrubs, garden tools, garden furniture, etc., having been secured. More than 40,000 Gladiolus were purchased last spring, with 35,000 Tulips and about 18,000 Narcissus bought in the fall and a saving of over $1900 effected. This buying at wholesale rates instead of cutting down the amount of money spent by each buyer, has actually increased the size of the gardens and the number and variety of plants in them.

"There is a healthy, friendly rivalry between the various companies and, as has been acknowledged by one of the high officials of the Edison Company, there is no activity established for the benefit of the employees that could or is doing so great a good for its members as does the Utilities Home Garden Association."

There is no reason why such a club should not be started in every city and one that will develop the same beautiful home gardens.

ONE phase of National Garden Week's program we urge each club to stress. That is the need of getting actively behind the American Forestry Association, The American Tree Association and every organization in the land that urges conservation and reforestation. Fifty years ago, our Government took the first step in forestry. Several steps have been taken since but not enough ground has been covered. Just a few questions need be asked, a few facts stated clearly to show the need of immediate action: Where have the forests gone about *your* town? Are they being replaced? Does your town own a community forest? Do we wish to become as treeless as China? We are using, buying, wasting our forests nearly five times faster than we are growing them. We are the only progressive nation, in fact, without a national forest policy.

This forestry problem is one of the most important of all that face us to-day. Public opinion can settle it and every member of every garden club should be active in this work. Forestry and reforestation and the preservation of wild plant life should be part of the program of National Garden Week in every town or city in the country.

Write us for free programs and leaflets for National Garden Week; also free constitutions and programs for garden clubs.—ELLEN D. WANGNER, *Secretary.*

The aim of The National Garden Association:

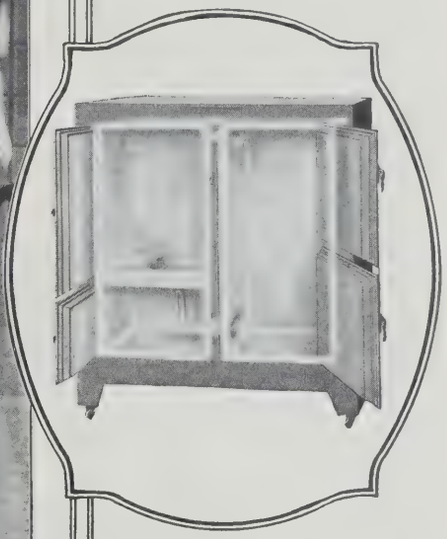
A garden club in every town,

Federations in every state,

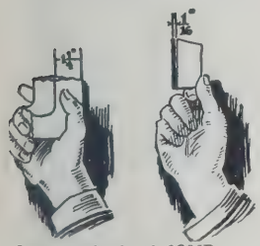
A National Federation of Garden Clubs.

A glimpse of the successful flower show held last year by the Utility Home Garden Assn. of Chicago, Ill. This exhibition was held in the large main hall of the Commonwealth Edison Company Building

China surfaced crock interiors of solid porcelain—cast in one piece without crack, crevice or seam—act as stabilizers—maintain low temperatures longer—prolong life of electric refrigerating machinery—provide unheard of economy—and perfect food preservation.



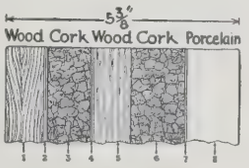
Nature's Flavors—Faultlessly Preserved



Jewetts are lined with SOLID porcelain, 1¼ inches thick. All other so-called "seamless," "one-piece" or "cleanable" porcelain linings are made of thin sheet metal coated with baked enamel. That's why Jewetts never dent, chip, peel, or rust out and why "they last a lifetime."

Electric refrigeration has changed the customs of the modern household. You are enabled to purchase perishable foods two or three days in advance and to keep them fresh and appetizing. But this has put new requirements on the refrigerator cabinet. Low temperature alone is not sufficient—absolute sanitation is now essential to preclude all possibility of bad taste and odors in foods. In Jewett cabinets and Jewetts alone you will find solid porcelain interiors cast in one block with full rounded corners and without crack, crevice or seam. The purchase of a Jewett therefore not only assures the perfect preservation of foods at all times, but it insures longer life, lower operating costs, and more satisfactory service for your electric refrigerating unit. And remember, no solid porcelain lined Jewett has ever worn out or had to be replaced.

The JEWETT Co. does not make refrigerating machines, but specializes on cabinets that can be used with any of the present electric freezing units—sold exclusively through dealers handling such equipment.



Cross section of Jewett Walls—top, bottom and sides—twice as thick as ordinary refrigerators and insulated with pure sheet cork. That's why Jewetts lock the cold in and the heat out, and cost less than any other to operate.

THE JEWETT REFRIGERATION COMPANY
120 Letchworth Avenue *Established 1849* Buffalo, New York

JEWETT
SOLID PORCELAIN REFRIGERATORS

(40)

CONSULT YOUR PAINTER

HE HAS THE EQUIPMENT and THE SKILL

for Deep-Waxed Beauty-Retaining FLOORS

OF COURSE you want beautiful, gleaming waxed floors in your home. They have such an artistic lustre and are so distinctive. Waxed floors accentuate beauty in furnishings, creating an atmosphere of perfect taste and harmony.

Now with no upheaval of your home's placid routine, your floors can quickly be made superbly lustrous—with a Johnson's Wax Electric Floor Polisher. In every neighborhood some master-painter provides this money-saving, beauty-giving floor service.

TELL YOUR PAINTER to use Johnson's Wax, burnishing it deeply in by the Electric method. This will bring every floor to gleaming, durable beauty. Yet your rooms are not upset for days because this wax hardens ready for polishing in five minutes. In a short time your rooms are in perfect order—and the workmen out of the way.

If your painter is not prepared to render this Johnson's Wax Electric Floor Polishing Service—mail the attached coupon and we can probably give you the name of some responsible workman who can furnish it.

Or, you can rent a Johnson's Wax Electric Floor Polisher at your neighborhood store for $2.00 a day and polish all your floors and linoleum yourself—in just a short time.

Owning a Johnson Electric Floor Polisher means an investment of only $42.50 and with every polisher is included, FREE, a $1.50 Lamb's-wool Mop and a supply of Liquid Wax. Your dealer can furnish one or we will send express prepaid.

JOHNSON'S LIQUID WAX

S. C. JOHNSON & SON, Dept. G. M. 4, RACINE, WISCONSIN
"The Floor Finishing Authorities"
(Canadian Factory: Brantford)

I am interested in having my floors waxed with your new Electric Polisher. Please give me the name of a Painter in this community who can render this service.

My Painter is.....
My Name.....
My Address.....
City and State.....

GARDENING FOR THE BEGINNER

The Month's Reminder—April

As to Time and Place: In gardening practice a date can only be approximated as seasons vary and local conditions will have some influence. Generally the latitude of forty degrees at sea level and a normal season is taken as standard. Roughly, the season advances or recedes fifteen miles a day, thus Albany would be about ten days later than New York (which is latitude 42). The latitude of Philadelphia is a week earlier. Also allow four days for each degree of latitude, for each five degrees of longitude, and for each four hundred feet of altitude. Latitude 40 passes through Philadelphia, Pa.; Columbus, Ohio; Richmond, Indiana; Quincy, Ill.; Denver, Col.

How to Use This Guide: Suggestions as to the most important things of the month are given in this department so as to "remind" the gardener of the current duties. For routine details of such things reference should be made to standard handbooks and guides. It is impossible to make a complete manual of practice in each number of a periodical magazine. Yet timely articles will be found elsewhere in each issue, and references to back numbers will often solve the immediate question. Moreover, the editorial staff stands ready to help any reader with personal advice by mail. A self-addressed stamped envelope should be enclosed with the question.

Who Writes This: The advice and instruction in this department are the gleanings of many years' experience in practical gardening matters by competent amateurs and others who have "been through the mill." The contributions are made from various sections of the country: for example, Mr. Jesse A. Currey contributes from Oregon; Mr. Theiss from Pennsylvania; Mr. Henry Gibson from Pennsylvania (formerly from New York); Mr. Sherman Duffy from Illinois; Mr. P. T. Barnes, out of a world-traveled experience; Mr. A. Kruhm, from an extensive Eastern acquaintance; Miss Ethel Hutson from the far South; Mrs. E. Urquhart from California and, in addition, occasional notes from elsewhere and by the editorial staff and associated contributors of experience.

SPRING is here! You may not know it by the weather outdoors as you are reading this, but it *is* here just the same! The birds are returning from their southern winter homes. The buds on the trees and shrubs are swelling and pushing out leaves. The newspapers are cracking stale jokes and printing cartoons of the commuter hurrying to the 5:15 laden with garden and lawn seeds. Narcissus and Tulips are pushing up through the ground. In just a short time they will be making the garden gay with their bright colors. Farmers are talking about the "onion snow" the last snow of the season, which by the way is a fine medium for sowing grass seed, the melting snow carrying the seed down into the ground.

WHAT'S TO FOLLOW THE BULBS?

HAVE you taken thought as to what will follow the bulbs to produce color throughout the summer? If the bulbs are to be left in the ground all summer, plant shallow rooted annuals, like Asters, Coreopsis, or Geraniums. They can be pulled up in the fall without disturbing the bulbs. Some bulbs, particularly the Tulips, should be taken up every year or two, carefully dried, and stored over summer and replanted in the fall. This enables one to take care of the increase, the young bulblets, planting them where they will not be crowded.

There are numerous summer flowering bulbous plants which are planted in spring.

CANNAS AND DAHLIAS

SET out Cannas at once. Divide the big clumps into separate pieces, each piece to have at least one eye, but better, three to four eyes. If only a few are to be grown place each in a 3- or 4-inch pot and put in a warm place, so that good growth will have been made by the time all danger of frost is past when they may be set in the outdoor beds. Quantities may be started in boxes.

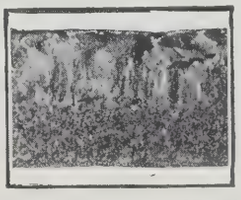
The time to start Dahlias depends! There is no great hurry, particularly south of New York. While it is possible to get the Dahlia in bloom in midsummer, still there are so many other flowers that Dahlias are really not needed then. Moreover, bear in mind that the best blooms are not produced until late August, September and even in October, so late that all kinds of makeshifts are resorted to to protect the blossoms from frost.

GLADIOLUS

A MOST satisfactory cutflower is the Gladiolus. It is not, however, a good garden flower. It is better to grow in rows in the vegetable garden, where they can be cultivated and cared for as are Corn and Potatoes. I found out to my sorrow last summer that scab is a serious disease of Gladiolus—badly infested bulbs will not bloom. Some experimental work done last summer by F. L. Holdridge of the Pennsylvania Department of Agriculture, proved that a little time and a few cents of disinfecting material would avoid all trouble from this disease. A grower who produces thousand of spikes for the cutflower market gave him a quantity of diseased corms (the disease is carried over the winter on the bulbs). Mr. Holdridge found that by soaking the bulbs for two hours in a solution of corrosive sublimate (mercury bichloride) one ounce to seven and one-half gallons of water, or in semesan, one ounce to three gallons of water, the disease was thoroughly eradicated from the bulbs. In the fall the grower who passed the bulbs over to Mr. Holdridge was dumfounded when shown the products of those diseased bulbs. Semesan is a new, proprietary disinfectant. Formalin

(*Continued on page 178*)

THE *wearing qualities of Preston Shingles depend not only on the quality but on the quantity of asphalt which each shingle contains. If you examine the edge of a Preston Shingle, you will notice that it is practically a solid body of asphalt. This feature of Preston Shingles accounts for their remarkable wearing qualities.*



MICROSCOPIC ENLARGEMENT

Preston shingles give a house personality

PRESTON Shingles can transform a house however simple and unpretentious into a place of distinction. The soft colors of the slate and stone surfacing material are not only enduring but they blend perfectly with any color scheme of the house itself.

A Preston Roof seems almost as if it were fashioned by nature herself. The Sunset shade produces the rare elusive tints of an autumn hillside.

Preston shingles are adapted to any pitched roof from a cottage to an expensive house. They are made in three thicknesses, Standard, Extra Heavy, and Massive. The Massive is much thicker than any other slate-coated asphalt shingle on the market. This thickness not only adds to the life but also to the appearance of a Preston Roof. It produces the distinct shadow line that architects insist upon. In addition to the Sunset blend, Preston Shingles are made in three solid colors, red, blue-black, and green.

We shall be glad to give you the name of a dealer or contractor who can supply you with Preston Shingles.

KEYSTONE ROOFING MANUFACTURING COMPANY
Dept. F-3, York, Pennsylvania

Preston K ROOFING MFG. CO. YORK, PA. **ROOFING**

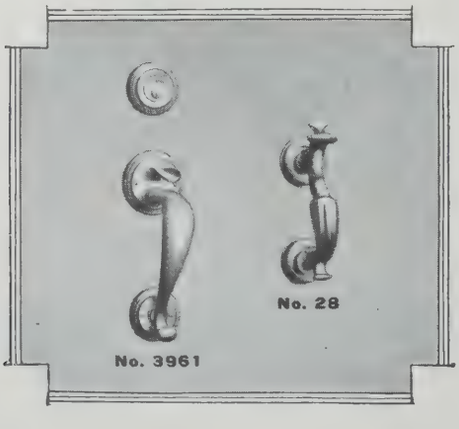
The doorway of a person of importance

If doorways express the people who live behind them—here, surely, might live a person of importance. A self-respecting citizen who blends cordiality with dignity . . . a sizable income with a sense of proportion.

If this is the doorway of your home, remember that the classical style *particularly* demands care in every detail. The Sargent handle and knocker shown agree with the Colonial design as thoroughly as the paneled door and Georgian scroll. These pieces are made in solid, time-resisting brass or bronze. To go with them is a Sargent Cylinder Lock—the utmost in security. Select Sargent locks and hardware with your architect—whatever your design may be. The free Colonial Book will help you. Write for it today. Sargent & Company, *Hardware Manufacturers,* 48 Water Street, New Haven, Conn.

SARGENT

LOCKS AND HARDWARE



(Continued from page 176)

proved to be a very unsatisfactory disinfectant; do not use it even if 99 out of every 100 druggists do recommend it.

COLOR FOR FALL

THE Red-hot-poker may not be in style but for fall bloom it rivals the well known Salvia splendens. These coarse-growing plants produce five- and four-foot stems crowned with four- to six-inch spikes of long, orange and red tubular flowers crowded close together. A barbaric effect is produced that to me is exceedingly welcome with shortening days and cooler weather of fall. Set the bulbs as soon as the ground can be worked nicely but there is no great hurry—late April will do.

BIG CHRYSANTHEMUMS OUT DOORS

NO LONGER need one envy the wearers of those big Chrysanthemums during the fall months, for they are easily grown in the backyard. If you do not believe it, buy a couple dozen plants of the earlier sorts and plant them in your garden. Prepare the ground as soon as it can be worked, digging in a liberal supply of well decayed manure or, if not available, use sheep manure and commercial fertilizer, and leaf mold, for Chrysanthemums succeed only in a loose, cool, friable loam, well supplied with water. In getting around I am surprised at the great number of backyard gardeners who grow them, even in "postage stamp" gardens.

TIME TO PLANT IRIS?

THE books tell us that the time to plant Iris is in August, but if anybody offers you a plant in April, take it right then, carry it home and stick it in the ground. Only half bury the rhizome; if covered it may rot. While they may not bloom this season they will grow and bloom next year, but as I have seen Iris dug in clumps and placed in vases for formal gardens blooming lustily that same year, you may get blooms the first year. When the Iris blooms is a fine time to visit the favorite Iris nursery to select varieties. Plan to do that this year. If you go by auto have the nurseryman dig the varieties you want and bring them home with you. You'll then know you have what you want, which is not always the case when ordering by mail. This is not a knock at the nurseryman because he does his best to avoid mistakes, and all plants under the wrong label are pulled out and destroyed. I have followed the man who did it and brought home a basketful of nameless yet beautiful sorts.

FOR BOLD FOLIAGE EFFECTS

LOTS of people turn up their noses at the oldfashioned Elephant's-ear or Caladium; but used in connection with the Castor-oil Bean wonderful tropical effects are produced. Plant the Castor-oil Beans two or three feet from the house wall; then in front of them another foot or so out, set the Caladium bulbs 18 inches or two feet apart. Give an abundance of manure; also see that at no time after the plants have started do they suffer from lack of water.

Another intriguing plant for tropical effects is Bamboo. You know your climate better than I do. Study the catalogues and pick the Bamboo species likely to stand your climate and try them out. Some species stand a surprising amount of frost.

FOR SCREEN AND COVER

HARDLY a garden that doesn't have something to cover up. Maybe it is the posts on which the clothes line is hung. Plant Euonymus vegetas or Ampelopsis tricuspidata, or A. englemani at the base. Two seasons' growth will convert that ugly post into a thing of beauty. For covering old fences, piles of stones, rocky ground and similar places, to screen out unsightly outbuildings, quick growing vines like Morning-glories, Moon-vine or Dolichos lablab will give wonderful results the first year, while the slower growing vines are becoming established. One little garden with an iron fence has a few plants of the Perennial Sweet-pea that blooms all summer. It is trained over the fence.

FOR PORCH SHADE

THE densest foliage for porches is that produced by the Dutchman's pipe. While we have had such a vine on our porch for years and it did good service, I made up my mind when the vine died last spring after a hard winter, or some other unknown cause, to plant Grapes. Grape foliage is just as effective a screen, and with a little care in pruning, also a little spraying for insects and disease at the proper time, will reward the grower with fine bunches of fruit. I am not like the Pennsylvania Dutchman to whom I was suggesting flowers in his garden. He came back "Why plant those? Why not grow something to eat?" But I do believe where a vine can be made to serve a dual purpose, to do so.

The fastest growing vine is the Kudzu. The tops are not hardy with us but the roots are. Provide strong strings for the plants to cling to,

(Continued on page 180)

"It scatters seeds evenly. I fully recommend it."

C. C. OLSSON
Foreman Gardener
Dept. of Parks, New York City

Mr. Olsson in corner of New York Municipal Greenhouse on a tour of inspection. It is such healthy, luxuriant growth that SOWRITE Seed Sower makes possible.

FRANCIS D GALLATIN, COMMISSIONER
C. C. OLSSON, FOREMAN GARDENER

CITY OF NEW YORK
DEPARTMENT OF PARKS
BOROUGH OF MANHATTAN
MUNICIPAL BUILDING
TENTH FLOOR
HEADQUARTERS SECTION No.

February 1 1926

Mr. Max Schling,
785 Fifth Avenue,
New York, N. Y.

Dear Sir:

Have used the new Sowrite Sower for various kinds of flower seeds at the Conservatory in Central Park and found it very serviceable. It scatters the seeds evenly and is a great improvement over the old method of sowing, and I fully recommend it.

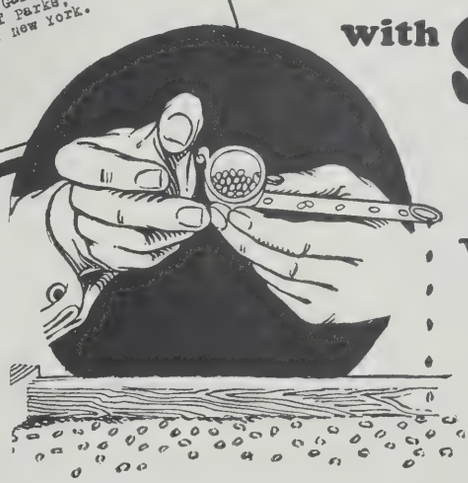
Yours very truly,
C. C. Olsson

C. C. Olsson,
Foreman Gardener,
Dept. of Parks,
City of New York.

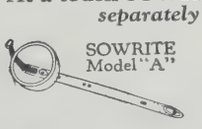
CCO

(Top) Mr. Olsson, Foreman Gardener of New York Dept. of Parks demonstrating the simplicity of SOWRITE Seed Sower. Read his letter above.

The NEW way to sow seeds! with SOWRITE



At a touch SOWRITE distributes seeds *separately* and *evenly!*



SOWRITE Model "A" — For sowing all fine seeds. Made of tough fibre-loid. Metal slide regulates flow. *Use the coupon.* **$1.00 Postp'd**

SOWRITE Model "B" — For sowing all *large* seeds up to sweet pea size. Metal construction, with adjustable slide. *Use the coupon.* **$1.50 Postp'd**

YOU can plant seeds like an expert gardener!

WHAT more striking proof of SOWRITE'S practicability than the sincere recommendation of a master gardener — Mr. Olsson of the N. Y. Dept. of Parks! Yet so simple is SOWRITE that even the most amateur gardener can get the results of an expert!

You merely adjust SOWRITE'S metal slide to size of seed, fill up bowl and tap lightly with your finger. *That's all there is to it! Every seed scatters at correctly spaced intervals!*

This Spring start off right—let SOWRITE do *all* your planting! Fill out and mail the coupon at once.

$1.00 *Postpaid* [Model A]

Simple! Positive! Economical!

With SOWRITE, Seedlings spring up *separately* and *unchoked!* "Thinning out" becomes practically unnecessary; fewer plants are lost; more produced per package of seeds. Pays for itself many times over in stronger, healthier flowers, plants and vegetables.

For Beauty! For Protection!

"BUILT-EASY" BIRD HOUSES

Attract lovely songbirds this Spring. They'll protect your plants — destroy millions of bugs, and boring pests.

Model "A" For Wrens

Three Styles
$1.65 each
Postpaid

—

All Three
$4.50
Postpaid

Model "B" — For Bluebirds, Martins and Woodpeckers

Model "C" For Wrens

Wood construction, quaint rustic stained. Packed flat in carton. Quickly erected. Order via Coupon.

SEERITE

A Permanent Garden Label That CAN'T Wash Off!

8 for $1.00 Postpaid

Label enclosed by watertight glass cylinder; wooden peg holds it firmly. *Always* readable! Box of 8 Seerites $1.00 Postpaid. Use the Coupon.

Clip and mail

MAX SCHLING, Inc., 785 Fifth Avenue, New York City

I enclose check—money order—cash—for
"SOWRITE" Seed Sower—Model "A" ($1.00)_____ Model "B" ($1.50)_____
"SEERITE" Marker (8 for $1.00—100 for $11.00)_____
BUILT-EASY BIRD HOUSES—Model "A"_____ Model "B"_____ Model "C"_____ ($1.65 each—three for $4.50)
Above prices include all mailing costs

Name_____

Street_____ City_____ State_____
(G. H.) (Please print plainly)

Roses next June!

Yes, and throughout the Summer, clear up to frost, for such is the performance record of Hybrid-Tea Roses. The extra sturdy, two-year-old plants we supply are sure to bloom freely, while sorts offered are "unbeatable" among the hundreds of varieties we grow.

The Famous "Dreer Dozen"
Everblooming Hybrid-Tea Roses

Here is a selection of varieties bringing exquisite color combinations, buds and flowers of perfect shape, great blooming qualities and delightful fragrance. In its entirety, the collection represents the greatest value in truly choice sorts, at reasonable cost.

Caroline Testout—Large, very double globular flowers of satiny rose.

Duchess of Wellington—Experts vote this among the first twelve for any garden. A lovely saffron yellow of exquisite fragrance.

Hadley—One of the greatest fall bloomers. A rich crimson red of lovely shape and fragrance.

Kaiserin Augusta Victoria—The old and still indispensable white variety. Vigorous free bloomer.

Lady Alice Stanley—Equally acceptable for bedding and cutting. Coral rose, deep flesh pink inside.

Lady Ursula—Strong vigorous, and one of the most persistent bloomers. Varying shades of light pink.

Los Angeles—Lovely buds and flowers of a luminous flame pink shaded yellow and of pronounced fragrance.

Miss Lolita Armour—Deep coppery buds opening into creamy coppery flowers, tinged orange. Very free flowering.

Mme. Edouard Herriot—Among the most brilliant in the coral-red and orange class. Semi-double flowers opening brilliant orange-red and salmon.

Radiance—Everybody can grow this variety. A splendid grower and free producer of rose-pink buds opening into lighter tinted well shaped flowers of great fragrance.

Red Radiance—An offspring of Radiance, of deep rose-red, to almost light crimson color. Splendid grower and free bloomer.

Rose Marie—One of the very finest. Clear rose pinks of good size and fragrance.

Any of above varieties, strong two-year-old plants (the ready to bloom type) $1.00 each,$11.00 per dozen.

One each of the Dreer Dozen—an unbeatable selection for $11.00.

The Dreer Garden Book

Continues to be considered the "*Beacon Light of the Garden World*" by those in search of reliable information on the subject of seeds, bulbs, plants, etc. For 88 years its accurate descriptions and illustrations have been considered dependable guides by hundreds of thousands. Gladly mailed free, and please mention this publication.

HENRY A. DREER

1306 Spring Garden St. Philadelphia, Pa.

(Continued from page 178)

and the porch will soon be screened in. A single root will produce several stems a season 30 feet long. Binder twine is a cheap strong twine for this purpose.

SEEDS FOR THE VEGETABLE GARDEN

PLANTING proceeds as fast as the weather permits. Tender vegetables like Beans and Corn may not be planted until mid or late April, or even later, depending upon the locality. It is no fun to start these too early and have Jack frost kill them after they are up. But a sowing of Radish seed should be made once a week from now on to provide a succession of tender, juicy roots; also Loose-leaf Lettuce, Early Cabbage, Cauliflower, and Potatoes are put out just as soon as the ground can be worked. And Onions! Onion sets and onion plants. You know that you can buy onion plants now of the Bermuda type. They are raised down south and shipped up in 100 plant bundles. Get these in late April or early May and plant them out. Plant them three to four inches apart and as they grow they can be thinned a bit, the thinnings are used for "spring onions."

APRIL REMINDER FOR THE FAR SOUTH

THIS is our gayest month in New Orleans, the "Florida Parishes" of Louisiana, and the Gulf Coast region of Texas, Mississippi, Alabama, and Florida. Almost every annual and shrub that we plant blooms this month.

The cold rain our Easter moon usually brings may set back a few of the more tender plants, but Phlox, Verbena, Larkspur, and their more refined stately Delphinium, Calendula, Nasturtium, Sweet Alyssum, Petunias, Snapdragon, are at their best. To keep them so for the longest possible period, watch them and cut back almost daily the portions which have finished blooming, forcing them to put out new bud shoots. Larkspurs and Snapdragons stop blooming if allowed to make seed. But by cutting these off and working and fertilizing the plants the season may be prolonged, and Marguerites have been kept in bloom for three months, in this way. Nasturtium seed pods should be picked when green and full and put into a bottle of hot vinegar to make pickles.

The Pansies which began blooming in January have about spent themselves. They should be dug up and Portulaca, Verbena, Lobelia, Browallia, or Torenias planted in their stead.

Balsams, Gomphrenas, Petunias, Gaillardia, Amaranthus (Cockscomb), Celosia (Prince's Feather), Vinca Rosea (Periwinkle), should be planted now. Coleus, Kochia and other foliage plants, and Zinnias started now will enliven the June and July garden, when all the plants now blooming will be past their prime.

If you have not already set out your Chrysanthemums for November blooming, do it early this month. They should be planted from "suckers" from the old plants and put about twelve inches apart, just where you want them for fall blooming. Have the soil very fine and very, very rich with well rotted manure, and water every day it does not rain until they are well rooted and healthy plants. Plant Tuberoses and Gladiolus for mid-summer blooming.

Look to your vines now. Wisteria is about through blooming and will grow amazingly fast. If it covered the arbor you had for it last year, build another and put a few wires for it to cross on, and you will soon have two shady walks or summer-houses.

Rose vines may get mildew, leaf-spot or blight if we have a wet spring, so they should be watched and sprayed with bordeaux mixture once a week. In spraying be sure to apply it to the underside of the leaf. As your Sweet-peas die down, sow annual Cypress Vine. It soon covers the old strings and stakes that held the Sweet-peas and will make a showy mass of blooms until heavy frost in November, when you will find it is time to enrich the soil and put in Sweet-pea seed again.

Peaches and Grapes have probably finished blooming and have on very tender leafage, but should be sprayed anyway. If the plants were sprayed just before blooming time with bordeaux mixture in which there were also three pounds copper sulphate, three pounds fresh lime, two pounds arsenate of lead, to 50 gallons of water, it would be well to use this same solution just after the blooms have fallen.

Figs will be leafing out this month and if you have not thoroughly rid your place of ants by placing cans of poison (put up according to the U. S. Entomological Bureau formula,) out in December, you should get some at once and put at least two cans in each tree. Watch for the borer worm, which attacks the trunk, eating under the bark. Dig out the worm with a sharp knife or hat pin and paint with asphaltum, using a brush, painting 5 inches above the ground and 5 inches below, where the ground has been pushed away to get at the borer. The material must be warm but not hot, and it will be necessary to put on two or three coats to get it to adhere perfectly.

Lawns should be mowed twice a month now and weeds should be removed with care in order not to have bald spots. Remove the weed with your trowel and fill the hole with water before replacing with a piece of sod. Press the sod down firmly with your foot and it will not even wilt.

This is an important month for the vegetable garden. If you have not already planted Okra, Melons, Squash, and Cucumbers do so at once. Also Tomatoes, Eggplants and Peppers, Early Cabbage, and toward the end of the month, Italian Cauliflower.—ETHEL HUTSON.

— You want a tiled kitchen.
— You want to know the cost. Your local Tiling Contractor will tell you. Phone him for suggestions and prices.

A kitchen to be proud of

The floor and wainscot of Association Tiles make this kitchen a model of beauty and cleanliness.

It is a *modern* kitchen—attractive, easy to keep in perfect condition, a joy to work in. The old-fashioned kitchen meant drudgery. It was not much to look at. But a *tiled* kitchen is one of the most delightful rooms in the house.

If you are thinking of remodeling, nothing will go so far toward making your home *new* as Association Tiles in bathrooms, kitchen and other places where Tile should be.

Tiling contractors in your locality will give you estimates showing the *reasonable cost* of tilework. Long service and constant enjoyment will prove its actual *economy*.

Write for complimentary copy of Beautiful Association Tiles booklet. Address

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MOSAIC TILE CO., Zanesville, Ohio
NATIONAL TILE CO., Anderson, Ind.
OLD BRIDGE E. B. & TILE CO., Old Bridge, N. J.
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PERTH AMBOY TILE WORKS, Perth Amboy, N. J.
THE C. PARDEE WORKS, Perth Amboy, N. J.
UNITED STATES ENCAUSTIC TILE WORKS, Indianapolis, Ind.
WHEELING TILE CO., Wheeling, W. Va.

This cheerful, sanitary floor is GOLD SEAL INLAID, *Belflor Pattern No. 7103-1*

NAIRN
Gold Seal
INLAID
TRADE MARK
SATISFACTION GUARANTEED OR YOUR MONEY BACK
REMOVE SEAL WITH WET CLOTH
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The right atmosphere for the children's playroom

You thoughtful mothers know that of all rooms the nursery should be alive with color. Bright walls, painted furniture, *and* colorful floor—a floor of quaint, bright-hued pattern to banish the last trace of the drab and monotonous. And how sensible to have a floor that is absolutely sanitary, that offers no lurking place for germs.

Gold Seal Inlaids are genuine inlaid linoleum, waterproof and without cracks. A damp mop keeps the smooth surface spotless. Extremely durable. And moderate in price.

In the picture is one of the many charming *Belflor* patterns whose delicately mottled color effects are so popular for all parts of the house. If you want tile designs in clear, solid colors, ask to see the *Universal* patterns, always in demand for kitchen, pantry and bath.

Gold Seal Inlaids carry a guarantee of satisfaction or your money back. When you buy inlaid linoleum, to assure yourself of getting exceptional value, look for the Gold Seal on the face of the goods or the Nairn name stamped on the back.

GOLD SEAL INLAID
Belflor Pattern
No. 7151-5

GOLD SEAL INLAID
Universal Pattern No. 51-150

Our free booklet will give you suggestions for decorating your room. Write for it today.

CONGOLEUM-NAIRN INC.

Philadelphia	New York	Boston	Chicago	Kansas City	San Francisco
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NAIRN
GOLD SEAL INLAIDS

What Is MORENE?

THE WALL FINISH DISTINCTIVE

Morene is a new wall finish—a Portland Cement Product—that combines the permanency of concrete with the utmost in artistic possibilities. It has been brought to the point of perfection where it will hold the color, textural variety and permanent beauty of both interior and exterior walls. It is particularly rich in the wide range of effects that can be created and is adaptable to widely different uses.

Use of Morene in the Home

Morene will produce anything from the simplest stipple finish to the finest mural decoration. It is the one complete wall finish that will produce varied and attractive interiors and exteriors at a reasonable cost. It will produce with exceptional fidelity as to color, form and texture such effects as: Caenstone, Unpolished Marble, Travertine, Limestone, Sandstone, Tapestry, and unlimited textural effects.

Practical and Economical

Morene is ideal for use as a Bedroom wall finish due to the charming designs that can be created in the soft and more delicate color shades. It affords new decorative possibilities for Sun Room, Entrance Hall, Living Room, Conservatory, Bathroom, Corridor, or Court. It can be adapted readily to the home owner's choice of color, texture and design.

Morene is a permanent, durable finish; is washable, and is not injured by intensive heat or cold. It can be applied on brown or white plaster, masonry, concrete, any gypsum or fibre wall board, old painted surfaces, wood or metal. It does not require expert labor in the application.

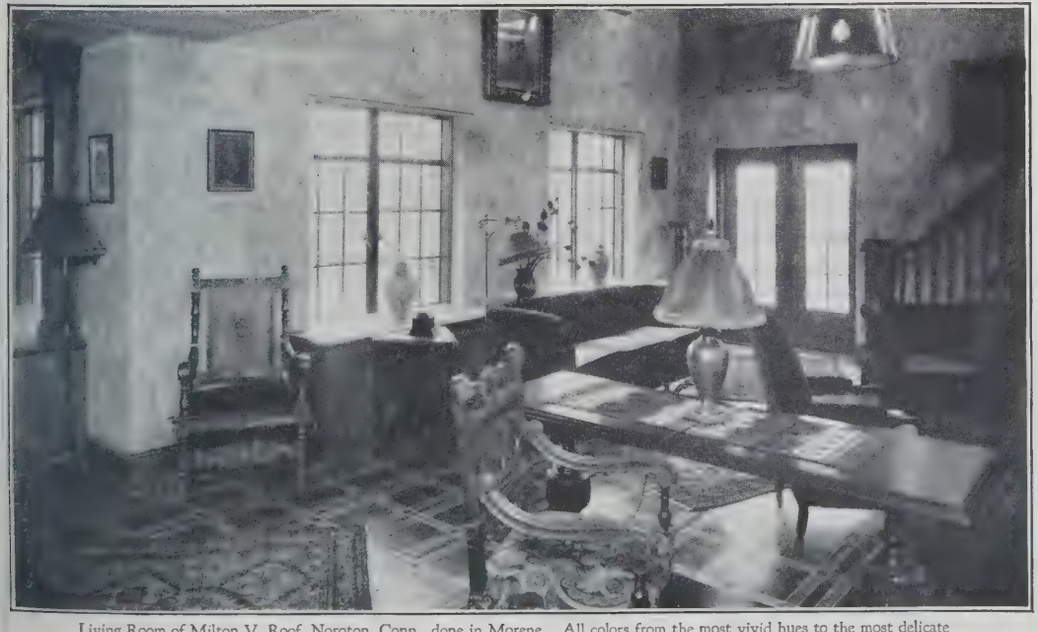
VISIT OUR SHOWROOMS

We should be pleased to show you the possibilities of Morene at our New York Showrooms, or if you can not visit our showrooms, write for full information.

Morene Products Co., Inc.

154 East 47th Street New York City

Branches: **Washington Philadelphia Boston Toronto**



Living Room of Milton V. Roof, Noroton, Conn., done in Morene. All colors from the most vivid hues to the most delicate pastel shades can be produced in Morene.

Heavily Brushed on and Raked Out With Wire Brush

Detail of Panel done in Morene

Heavily Brushed on. A Popular Morene Finish

Do YOUR Home Grounds Hold Nooks Like That Below?

Where lovely Lilacs rub elbows with stately Irises; where you may rest and relax and feel that the world is good to live in after all; where you may dream and plan and then set forth with renewed energy to make your dreams and plans come true. This message is for new gardeners in the making or old hands looking for new delights. We offer these in the form of

6 Fine Hybrid Lilacs for $5.00

The parent plants of these came from the world famous collection in Highland Park, Rochester. We will supply strong, well-rooted bushes, 2 to 3 feet tall, at $1.25 each, the set of 6 for $6.00, tree form, 3 to 4 feet tall, $2.00 each, the set of 6 for $10.00.

Alphonse Lavalle. Double; very large panicles of beautiful blue flowers, shading lilac.

Belle de Nancy. Double; great panicles of pink flowers with white center.

Charles X. Single; strong, rapid grower; rather loose trusses of reddish purple flowers.

Marie Legraye. Dwarf sort, with single, creamy white flowers of immense size.

Mme. Lemoine. A pure white, double variety that has won many prizes. Good forcer.

Souvenir de Ludwig Spaeth. Long panicles of single, dark purplish red flowers. Splendid sort.

A Regular "Old-Fashioned" Garden

The delights of the old-fashioned garden consist largely in the surprises which it brings and the constancy with which it is on the job. Year after year it blooms more freely, becomes more lovely and valuable. Our "Surprise" Collection of popular perennials consists of 25 strong, field-grown plants, our selection, all properly labeled, no two alike, 25 distinctly worth-while sorts, for only $5.00. If, after careful examination of the collection, you do not consider it the biggest value in choice hardy plants ever received, return them at our expense, and your money will be returned.

Please Write for Catalogue T

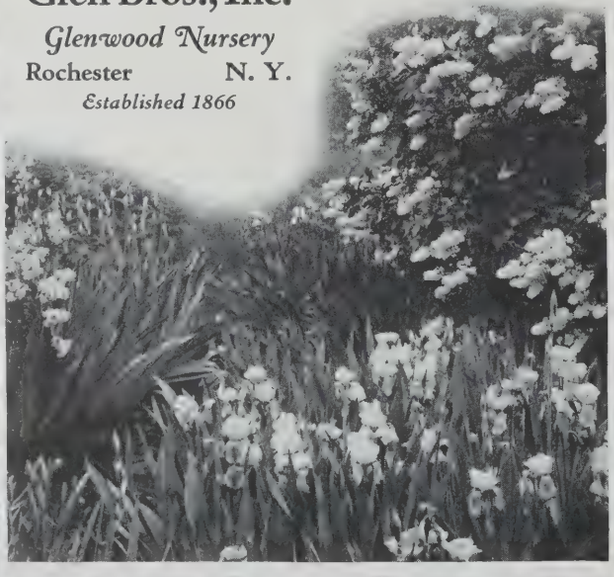
It offers all kinds of plant materials for the home grounds, besides fruit trees, grapevines, berries of various kinds—all suitable for fall planting. Our Service Department will with pleasure help you through act and advice either how to execute your plans or make plans for you. Please send for the catalogue "T" and let's get acquainted.

Glen Bros., Inc.

Glenwood Nursery

Rochester N. Y.

Established 1866



Carolina Hemlock at the Arnold Arboretum

Kelsey-Highlands Nursery

OUR MOST BEAUTIFUL AMERICAN CONIFER CAROLINA HEMLOCK

Prof. Sargent, Director of the famous Arnold Arboretum and the greatest Tree Authority in America, says, "I consider this tree the handsomest Conifer we can grow in New England."

Fine specimen stock, balled and burlapped.

	Each	10	100
2-3 ft.	$5.00	$45.00	$405.00
3-4 ft.	7.00	63.00	567.00
4-5 ft.	12.00	108.00	972.00

(5% Discount when Cash comes with the order.)

THE CHARMING COTONEASTERS

No group of shrubs has more brilliant fruit effects and pleasing foliage and growth than this, and Horticulture is deeply indebted to Dr. Wilson and the Arnold Arboretum for introducing them to our American gardens.

Thirteen of the best ones, and many other rare plants from "AMERICA'S GREATEST GARDEN" including the splendid Flowering Crabs, are offered in my

NEW CATALOG

which is sent on request.

Other Kelsey-Highlands specialties are our best Hardy Native American Trees, Shrubs and Plants, especially the world-famous Azaleas, Rhododendrons and other showy ornamentals of the high Carolina Mountains.

Early plantings always bring the best results.

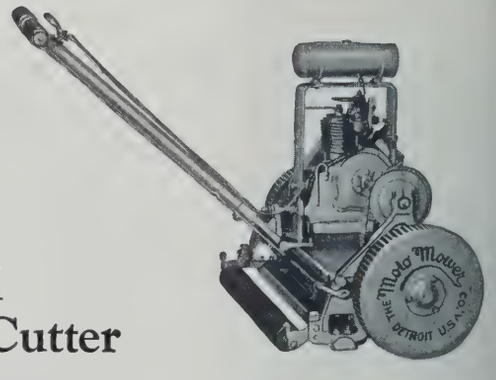
HARLAN P. KELSEY

SALEM, MASSACHUSETTS

Moto-Mower

TRADE MARK

A Twist of the Wrist Guides It



A Real Grass Cutter

The Moto-Mower will give you a nice clean job with little effort. It is fast, powerful, simply built and entirely "fool-proof." Controlled by two rubber handle-grips. A single twist causes it to stop, start or turn in any direction—on its own power. Cuts close to trees and flower beds. Send for our latest catalog—today.

THE MOTO-MOWER COMPANY

3249 E. WOODBRIDGE ST. DETROIT, MICH.

Famous from Ocean to Ocean—
and Reasons Why

For almost half a century, Hammond's Gold Medal Insecticides, have helped in our national House Cleaning endeavors in Garden and Field. To-day, there is a Hammond Dealer in nearly every large town having a Seed store and Hammond's Slug Shot has become the nation's standby in its perpetual warfare on the Potato Bugs. Besides, it is useful in combating Currant and Gooseberry Worms, Aster Beetles, and other leaf chewing insects. Absolutely harmless to man, bird or beast, and it does not injure the foliage.

FOR GARDENERS USE
DUSTER IS IN THE KEG

Other Hammond Gold Medal Insecticides

Where a powerful *contact* insecticide is needed, you make no mistake in calling for

Thrip Juice

Instantly kills all soft-bodied insects such as Aphis, Red Spider, etc. Has never failed to do the work in over forty years.

Hammond's Grape Dust

has, for 36 years, proved an effective mildew remedy, especially valued by greenhouse owners. Equally useful outdoors, and equally effective as a spray or in powder form.

Copper Solution

is a great fungicide. A great cleanser with which to fight and remedy Blight, Rust and Mildew.

Buy in Quantity

The larger the quantities bought, the cheaper become the insecticides. Ask your dealer or write us for your copy of "Insects and Blights" offered below.

"Insects and Blights"

is the title of our yearly Booklet, now in its 41st edition. You'll find it useful, holding many practical suggestions how to get more pleasure and less worry out of your garden. Sent free on request and please mention G. & H. B.

Hammond's Gold Medal Remedies are sold at Most Reliable Seed Stores

Hammond's Paint and Slug Shot Works

BEACON NEW YORK

HAMMOND'S SLUG-SHOT
1880 1915
USED SINCE 1880
AN INSECTICIDE FOR GARDEN USE
TRADE MARK

Sold by the Seed Dealers of America

Jim Williams, getting ahead in the world

Mrs. Williams

"Jim, I wish we had *a better looking bathroom*"

"JIM," said Mrs. Williams one morning, "now that you are getting ahead so splendidly in business and bringing home important new friends to be entertained, I wish we had a better-looking bathroom. Guests notice things so. I see such wonderful bathrooms in other women's homes, all white tile and white fixtures, like palaces of cleanliness. Of course I don't think it would pay to have ours made all over now, since we may build before long. But I wish I could find some easy, inexpensive way to make it look better. It's my greatest problem."

Now we are proud to entertain important guests

"YOU'LL solve it," Jim told her. And as a matter of fact, she did. In the simplest possible way. Simply by replacing the old dark-colored toilet seat with a handsome, modern, all-white "Church" Toilet Seat.

The improvement which this made in the appearance of the bathroom was quite astonishing. Its beauty and refinement are qualities which every woman wants in her bathroom —a room she can be proud to have guests use.

The "Church" Seat stays permanently white. Its handsome ivorylike surface won't crack, splinter, chip, wear off or stain. It washes as easily as porcelain. You can install it yourself on any toilet in a few minutes. Obtainable at any plumber's.

If you have sometimes wished that your bathroom looked a little more attractive and up-to-date, send for a free copy of our attractively illustrated little book of sixteen pages, which tells how one woman discovered how to make her bathroom a room she would be proud to have guests use. It will help you. To secure it promptly, use the coupon below. We will mail it free and without obligation to you. C. F. Church Mfg. Co., Dept. L3, Holyoke, Mass.

A bathroom luxury everyone can afford

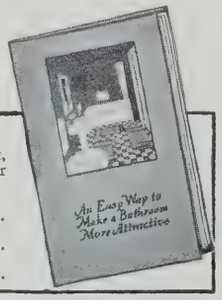
If you lived in one of those palatial apartments on Park Avenue, in New York City, where you have to pay $2,000 to $7,500 a year rent, there are still some things that you couldn't buy of any better quality than you could afford to have right now.

In your bathroom you couldn't have a better toilet seat than the "Church" Sani-white Toilet Seat, which you find in Park Avenue apartments and hotels and yet its price brings it within the reach of all.

Mail this coupon today

Church Seats
sani-white

LOOK FOR THIS NAME ON UNDER-SIDE OF SEAT



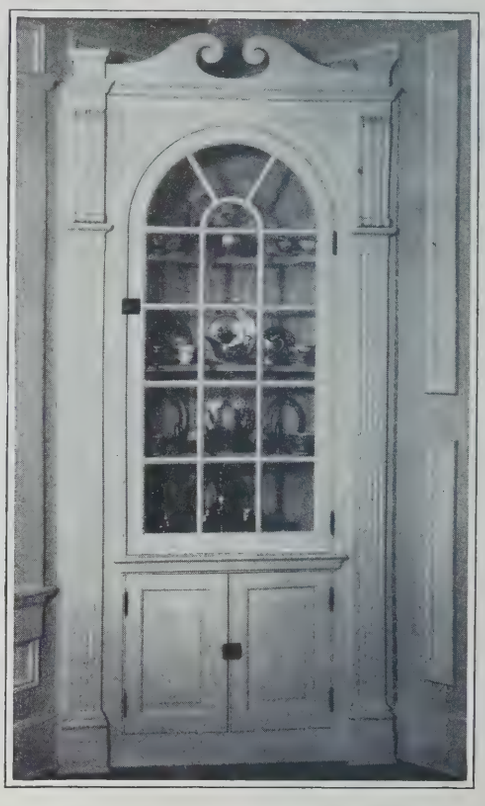
C. F. CHURCH MFG. CO., Dept. L3, Holyoke, Mass.
With no obligation on my part, please send a free copy of your book, "An Easy Way to Make a Bathroom More Attractive," together with free sample of Sani-white sheathing to.

Name.....
Street.....
City..... State.....

(Continued from page 144)

for cleaners and hooks for small brushes. If a convenient place fo pots and pans was not built in, a small unit will provide eight shelve with racks and hooks on its door,—ample space for the utensils needec for the average sized family.

If poorly placed windows or sink leave no wall space for a high cabi-



Fine detail, very simple molding, and delicately fluted pilasters, make this built-in corner cupboard a particularly pleasing addition to the dining room in the home of E. French Strother, at Garden City, N. Y.

net, one may be had with the top left off. This has a procelain tabl top with ample storage space and drawers, the cabinet being of mouse proof construction.

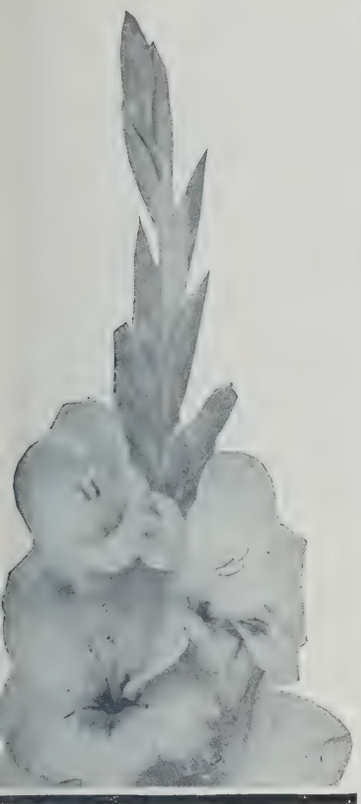
Where a kitchen is unusually large, these ready-built furnishings ar especially desirable, since they may be so grouped near range or sinl as to cut down by many miles the steps taken in doing the work All of these various units may be built in flush with the walls as per manent fixtures if one wishes, and in the case of the refrigerator, this i especially to be desired.

Many of these suites which so well merit their name of "kitchen maid' have an ice-chest unit built in them. In this day electric refrigeratio may be installed in any ice box, old or new, and eliminates the ice man and the old-time need of a refrigerator convenient to the bacl entrance.

From front door to back entry, from Colonial columns, past wel built stairways, through colorful breakfast nooks and well-equippec kitchens, there are carefully designed ready-builts to make the new house perfect and the old one more convenient.

WHERE LIGHTNING STRIKES

DONT be surprised if your big Oaks in sand or loam are struck by lightning. That is the conclusion of the state college of agriculture at Ithaca. Four reasons contribute to this: first, Oaks frequently grow to a great height, and tall trees are always more likely tc be struck; second, they grow well in loam or sandy soil, and records show trees growing on loam and sand are more often hit; third, the Oak is a starchy tree, which makes it a better conductor of electricity than an oily tree such as the Beech; and fourth, the Oak is a taprootec tree, with a root system going deep into the soil. In a 40,000 acre German forest Oak trees were struck most frequently, and after them in order came the Elm, the Chestnut, and the Pines. The Beech Birch, and Maple were almost never struck. The percentage of "hits" varied also according to the kind of soil, in this order: loam, sand clay, and prairie sod.



Gladiolus Shortage!

From all sections of the country, leading growers are reporting "Sold out on all blooming sizes." Wholesalers are seeking stock from every possible source. Prices are being gradually but strongly raised.

Freezing weather coming suddenly during the late harvesting season in the North, and the prolonged drought during the summer in the South are accountable for this crop shortage.

Elmwood Terrace Gardens were very fortunate. A favorable season and early maturity, combined with efficient harvesting methods, had resulted in placing all our bulbs in security just a matter of a few hours before the unexpected frost arrived.

We foresaw the present situation and have sold comparatively small amounts to wholesalers. Our choicest varieties have been held for our old customers and the general retail trade.

The finest and largest stock we ever have marketed—from two successive years of champions of the American Gladiolus Society Show.

We offer these specials for your quick consideration:

50 bulbs, all splendid named varieties in well-balanced color range, only	$3.00
100 of same mixture, only	5.00
25 bulbs, assorted shades of blue and lavender	2.00
25 bulbs, assorted shades of cream and yellow	1.50
25 bulbs, assorted shades of light pink	1.50
25 bulbs, assorted shades of darker pink	1.50
25 bulbs, assorted shades of scarlet and red	1.50

No more will be available when our surplus is exhausted. It will pay you to make your selections NOW. Cultural directions as adopted by the American Gladiolus Society will be enclosed with every order. Catalogue upon request.

Margaret Breard Hawks

ELMWOOD TERRACE GLADIOLUS GARDENS

Bennington, Vermont

Unrivalled Hardy Asters

IN GRACEFUL, ethereal loveliness when massed against shrubberies, Hardy Asters provide an effect of misty distance to even very small gardens. They are far from common in American gardens, are entirely hardy and one of the easiest plants to grow. Our collection includes nearly three score of the choicest varieties ranging in color from pure white to deep violet, and from pale pink to mauve. The growth of the plants is equally interesting—some are only 5 inches high, while others tower 6 feet or more.

"Hardy Herbaceous Plants"

our new catalogue contains a comprehensive list of Old-fashioned flowers in new and old varieties—Poppies, Asters, Iris, Chrysanthemums, Phlox, Trollius, Delphiniums, and many others. It describes and prices practically everything from Acanthus to Yucca that is really worth growing.

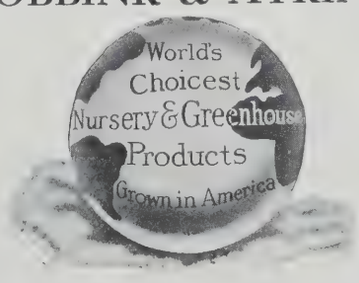
We shall be pleased to send a copy to those interested in planting perennials.

ROSES—*by Bobbink & Atkins*

There is still time to plant dormant Roses in April. Our new catalogue—"Roses by Bobbink & Atkins"—is the last word on the subject of selecting roses. In it are described and priced such varieties as Star of Persia, Rev. F. Page-Roberts, the Captain Thomas Roses, and many other new varieties. If you plan to plant Roses we shall be glad to mail a copy to you on request.

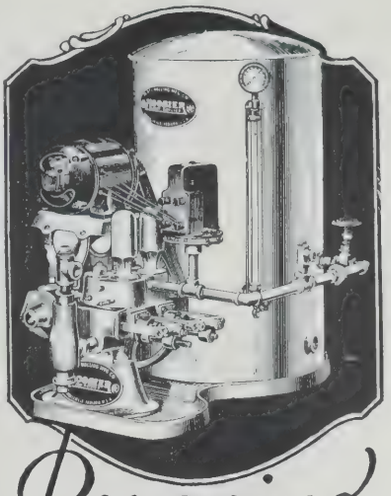
BOBBINK & ATKINS

Visit Nursery



Ask for Catalogue

RUTHERFORD, NEW JERSEY



Running WATER FOR YOUR HOME

Running water for EVERY purpose. Handy and hot for kitchen and bath. Cool and convenient for drinking. Plenty of pressure for garden and fire protection. Whatever your water supply—well, lake, cistern, spring — it can be brought as close as the nearest faucet.

If your supply of running water under pressure is to be entirely satisfactory, much depends upon your getting the equipment best suited for your needs. There is a Hoosier Water System that will exactly meet your requirements. That will give you water for every home purpose. That will give you city water service at LESS than city cost. That will take supply from any source and use any power that is convenient. That will last a lifetime because it is protected by the superior GALVAZINK process inside and out. A size to meet any need.

Ask your dealer about the HOOSIER

FLINT & WALLING MFG. CO.
Kendallville, Ind.
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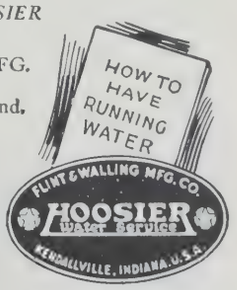
FREE BOOK
Get our free book, "How to Have Running Water." It will show you how to select the equipment that will meet YOUR requirement.



GALVAZINK WATER SYSTEMS

Woodland Gems
in Quantities

Azaleas and Laurels
in Carload Lots

HERE is an opportunity to add really worth-while denizens to your garden and grounds—at a distinct saving. Kalmias, Rhododendrons and Azaleas are our finest native shrubs. The *collected* specimens I offer, shipped in carload lots direct from North Carolina, constitute the greatest value ever offered in this type of plant material.

A Typical Selection

Below you'll find the kind of assortments I can assemble at short notice. All is select stock, carefully packed in car:

100 Azalea calendulacea	1–2 ft. clumps
100 Kalmia latifolia	1–2 ft. clumps
100 Kalmia latifolia	2–3 ft. clumps
100 Rhododendron maximum	2–3 ft. clumps
100 Rhododendron maximum	3–4 ft. clumps

A total of five hundred fine clumps that will make a great showing for $340.00 f. o. b. shipping point in North Carolina.

Ferns and Flowers
by the Millions

Good-sized clumps, collected at the same time as Laurels, offered above, which can be shipped in the same car. Here are a few items to familiarize you with values offered:

	100	1000
Lilium superbum	$10.00	$ 80.00
Lily of the Valley, strong plants	6.00	
Mertensia virginica	12.00	100.00
Trillium erectum	4.00	30.00
Trillium grandiflorum	4.00	30.00
Ferns in variety for massed plantings	8.00	70.00

No less than 100 of any kind supplied at these special rates.

Bring the Woods to Your Home

A special folder devoted exclusively to *collected* plants, ferns, lilies, broad leaved evergreen, and deciduous shrubs, to be shipped in quantities direct from North Carolina may point the easy way to a bit of woodland all your own. Please ask for it and mention G. & H. B.

EDWARD GILLETT

Fern & FlowerFarm - **3 Main St., Southwick, Mass.**

(*Continued from page 167*)

Others of these are Lemoine's yellow "Concolor" dark blotched yellow "Maculatus" and salmon "Salmoneus"; Vaughan's yellow "Sunbeam"; Grullemans' pink "Maiden Blush", yellow "General de Wet" and "Firequeen."

The whole purpose of the little miniature Gladiolus is so entirely distinct from that of the show type that similar standards may not be applied. Thus short curved spikes, with wide spaced and even narrow-petalled and star shaped flowers instead of full, rounded blooms may be preferred for many purposes.

Gladiolus in Shrubbery

ONE of the earliest uses made of Gladiolus flowers was to add color to shrubbery. In fact, this use of them by the French was responsible for the popularizing of the flower in England. In 1855, when Queen Victoria visited Fontainebleau, the shrubbery along the drives was embellished in her honor by cut spikes of Gladiolus, thrust in vases among the border plants. She was so pleased with the flowers that she started the fashion for the flower in England by using them constantly on the royal table.

While the French thus early recognized the value of the Gladiolus for outdoor decoration, the use of them for landscape work has been comparatively recent in this country, and few sorts have been developed which are specially suited for this use. Purple has been, perhaps, the most active in this direction recently. To be effective for landscape planting, in beds or borders, a flower must possess many traits which are of minor importance or even objectionable for cut flowers. First of all a bright color is essential. A dark, smoky, or dull tint is absolutely useless when seen at a distance and against a background of green. The colors need also to be reasonably sun proof. Many otherwise desirable red sorts fade badly in the sun. Windfirmness is another requisite. This can be aided by deep planting; and dwarf, low growing sorts are less liable to blow down than are tall ones. But if a variety usually requires staking it is useless for bedding. The spike need not be straight or erect, however.

Whether a straight or a curved flower stalk will be preferable depends upon the location in which it will be used. Along the edges of low shrubery or in rockeries dwarf sorts with gracefully slender curved spikes would make a more pleasing effect than stiff, erect ones. A profusion of bloom is much more important than large flowers. In fact small flowers are in general preferable, for they usually have better lasting qualities than large ones, and are less liable to become top heavy and fall over.

Whether the blooms should all open at once or a few at a time is again an individual problem. At summer homes where the season is short a brilliant display for a short time may be wanted. A variety such as "Brenchleyensis," with its bright flowers all open at once makes a wonderful showing during its short season, and it is widely used on such places for bedding and borders. A longer blooming period is more desirable in most gardens, and this is better accomplished by a succession of spikes, either on separate stalks or as branches of the main stalk, than by a slowly opening flower spike. Even a few full spikes with a profusion of open blooms are better than many crowded plants, each having only one or two flowers open, and with many buds or fading blooms. Another consideration of importance for landscape work is bright green foliage which keeps its color after blooming and until late in the fall.

Considering all of the requisites, the Primulinus sorts, most of which are very free flowering, are the most promising. A few of them like "Alice Tiplady" and some others are already proving worth while border plants, but there is a big field for further improvement.

Considerable emphasis has recently been put on tall varieties suitable for floor baskets. Many of these sorts have slender willowy stalks with the flowers wide apart on the spikes, giving them an airy open grace. A few others have the ponderous massive spikes of the show type and are true giants among Gladiolus. Of these some of the outstanding ones are Diener's striped rose "Mrs. Leon Douglas"; Cowee's "Scarlet Wonder," "Red Canna"; Kunderd's "Purple Glory" and his pink "Indian Summer." The slender sorts include some very fine ones, many of them having a fraction of Primulinus heritage. A few of the best of these are Purple's pink "Vanity," Kunderd's salmon saffron "Altair," salmon "Clio" and yellow "Butterboy"; his pink "Dr. Walter Van Fleet" is a quite distinctive type.

Varieties with odd and contrasting colors have been particularly popular in France. The old Gandavensis hybrids originated by Souchet, such as "Eugene Scribe," were striped as were the majority of the early Gandavensis sorts. Lemoine has further served to popularize in France Gladiolus with bizarre markings, with his dark blotched Lemoinei, such as his "Jean Du Taillis," which is salmon with maroon blotch; "Casa Blanca," white blotched lilac; "Etendard," cream blotched blood red; "Henri Lemoine," yellow blotched red; "La Couronne," cream blotched maroon; "Mme. Geo. Boulay," white blotched cardinal; and with his spotted throated Nanceanus strain, like light red "Charlemagne" and Vos's red" Chateau Thierry."

Other good spotted or blotched sorts are Vilmorin's "Desdemone,"

(*Continued on page 190*)

Large Maple in Hicks Nurseries. There are hundreds of trees with branches all ready for swings for the children.

Give the Youngsters A Shady Place for Play

School hours are soon over; then after the first rush to the open, children hunt for a fairly shaded spot for play.

This month and next some of the big Maples, Oaks or Lindens can be moved from Hicks Nurseries to your home. Some of these trees are more than 25 years old—so you see they are large enough to give immediate shade.

Come to the nursery, look them over, make your selection. You will find many rare shrubs here that will make your visit unusually interesting.

If you cannot visit the nursery, ask us to send you details about shade trees and rare plants.

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Box M **Westbury, L. I., N. Y.**

Complete Plant Service
For Garden and Grounds

We offer our usual complete list of trees, shrubs, evergreens and hardy perennials. Send for a copy of our "Suggestions for Spring 1926" to-day. A copy will be gladly mailed on request.

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W. H. WYMAN & SON, *Owners*
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Planet Jr. Makes Better Gardens

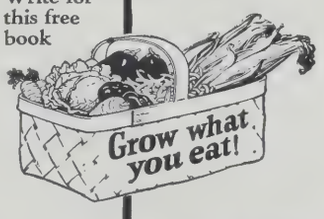
IF you still plant seeds by hand, Planet Jr. can help you.

If you still fight weeds single-handed with an old-fashioned hoe, Planet Jr. can help you.

No matter how small or large the garden, there's a Planet Jr. Seeder to fit. There's the neat little No. 35 Seeder which sows a pint of seed at one filling. Or the No. 25 Combination Seeder and Wheel Hoe, which holds $2\frac{1}{2}$ quarts of seed. Either of these plants better than your hand—much more quickly, far more accurately, in straight, sightly rows, easier to hoe.

Planet Jr. Wheel Hoes, single or double wheel, make light work of hoeing and weeding. Really to appreciate how much more pleasure and what superior results they give you for your gardening hours, you must see them at your dealer's. Or write for our new illustrated handbook on home gardens, which we will send you, on request, with latest Planet Jr. catalog.

Write for this free book



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The *One* Flower That is Our Hobby

It is the one that started us in business, now thirty years ago. Gradually we added others—Roses, Perennials, etc. But our oldest flower love is still the strongest—

TOTTY'S CHRYSANTHEMUMS

The best Standards and Novelties —in all Classes

Forty pages of our catalog (for which please write) are devoted to Chrysanthemums exclusively. They'll introduce to you the novelties in Exhibition varieties from the best growers the world over. The hardy garden section includes Singles, Doubles, and Pompons, in sufficient varieties to please every flower lover's heart.

For a Delightful Hardy Fall Garden

A special collection prepared for those not familiar with the different types available. We'll include an equal number of each type in a wide latitude of colors. Our own selection of distinctly meritorious varieties.

100 Assorted Plants $15

Write for our catalog—recognized as one of the foremost spokesmen for Floral Novelties of Merit.

CHAS. H. TOTTY COMPANY

Headquarters for Flowers, for Garden and Home

Madison, New Jersey

Better Flowers for Discriminating Buyers at 4 East 53rd St., New York City

(*Continued from page 188*)

smoky old rose with pale bordered dark blotch; and "Mme. Maumeue," white blotched dark garnet; Lemoine's "General Langois," which is rose dotted crimson and cream; also "Lady Howard de Walden," yellow blotched carmine; and "Mme. Maunet Sully," milk white blotched orange. American growers have in general shown a preference for simpler color schemes than those of most of the French sorts, only the dark Lemoine throat blotch being greatly favored in this country. Many of the American sorts have this dark blotch, well exemplified in "Mrs. Frank Pendleton."

LARGE flowers have always been favored by gardeners, but it remained for the Americans to emphasize this in the Gladiolus. Since the introduction of the Childsi sorts in the 90's American breeders have so consistently bred for size of flowers that they now have a quite distinct large flowered strain, and this has gained popularity not only here but in Europe as well. These, in contrast with the show type, are apt to have few flowers open at once, usually only three to five. They make up in size for what they lack in numbers, and the blooms are wide open and full. The varieties of this large-flowered strain are still mainly of American origin, and there are hundreds of sorts at present in the trade. Some of the older ones which have retained their popularity are Coblenz's red "Mrs. Francis King"; Banning's flesh colored "America," pink "Panama," and yellow "Niagara"; Groff's white "Peace" and red "War"; and Kunderd's dark blotched pink "Mrs. Frank Pendleton." Newer sorts which rival these old standbys and in some instances surpass them are Kunderd's lavender "Byron L. Smith," his pink "Mrs. Dr. Norton," red "Pythia," and "Scarlet Princeps"; Groff's "Dominion"; Austin's mauve "Herada," pink "Wamba" and pink "Evelyn Kirtland"; Kemp's "Pink Wonder"; Betscher's "Crimson Glow" and "Cruentus Superba"; Coleman's "Giant Nymph"; Prestgaard's white "Carmen Sylva"; and Wright's lavender "Louise." These large flowered sorts have proven better for general use as cut flowers than the extreme show type. The spikes last longer, the flowers opening slowly over a long period. For this reason they have steadily gained in popularity.

Some of the new sorts show strongly the influence of the Primulinus species, which tends to give them opener, slenderer, more graceful spikes than the typical large flowered strain. Many of them also have very delicate tints of salmon, orange, and buff. These graceful pastel tinted sorts have proven very desirable innovations, and will go far toward removing the criticism that the American varieties are too heavy and stiff. Interesting sorts showing this tendency are Coleman's pink "Sheila"; Zeestraten's red "Diana"; and Fischer's orange-yellow "Sunnymede." Kunderd's pink "Mrs. Dr. Norton" shows similar characteristics.

DEMAND FOR EARLY BLOOMING KINDS

PRESENT-DAY tendencies in America seem to be leading toward earlier flowering sorts, and fancy petaled varieties, either ruffled or fringed. Kunderd was the first to introduce both the ruffled and the fringed or laciniated forms. The ruffled sorts seem now to be a distinct strain and most of them are Kunderd's introductions. Among the best of these are his rose-pink "E. J. Shaylor," dark red "Purple Glory," creamy apricot "Kunderdi Glory," white "Helen Franklin," flesh pink "Mona Lisa" and Diener's "Mrs. H. E. Bothin," which has all of the characteristics of Kunderd's strain and is evidently derived from it. There is apparently no well defined fringed or laciniated type as yet.

Tendencies toward notched or fringed petals appeared among the seedlings of several growers almost simultaneously. There are Kunderd's much advertized pink "Lacinatus," Kemp's beautiful white "Ruffolace," Ream's "Laciniated," and Gladiolus Bill purple has a cream colored "Serrata." Fischer also has a laciniated seedling. Both the ruffled and laciniated sorts are novel and pretty, and are deservedly popular. Most of them have little promise as commercial sorts as the flowers are usually small and the spikes are not full. Kemp's "Ruffolace" and Kunderd's "E. J. Shaylor" seem to be the most promising.

THE long continued efforts of several growers to develop earlier flowering spring planted sorts have recently had results. Among the earliest of the older varieties are Von Thol's "Pink Beauty," a dark blotched Lemoinei; Veltuys's large pink "Halley"; and Van Zanten's salmon-pink "Prince of Wales," both Nanceanus sorts. Lemoine introduced an early flowering strain, offspring of the earliest Lemoinei varieties crossed with the Transvaal species, Gladiolus aurantiacus, which is likewise very early flowering. These do not seem to have been widely grown. Van Tubergen has also recently introduced a very early strain of apparently similar origin. He calls them the "Herald Gladioli," and offers five kinds; of which scarlet "Joost van den Vondel" and salmon-orange "P. C. Hooft" have received special certificates from Haarlem. Among the newer American sorts the notably early ones are Hinkle's "Elizabeth Tabor," pink with a deep red blotch; Coleman's "Sweet Lavender" and pink "Sheila." Bettscher has crossed the early Primulinus sorts with Gladiolus leichtlini, and has some very early flowering seedlings, which are not yet introduced. The possibilities in this direction are by no means exhausted.

(*Continued on page 194*)

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THE buildings shown on this page are typical examples of thousands of distinctive structures, large and small, that are equipped with Russwin Hardware — chosen because of its beauty of design, and well-known ruggedness of quality which means a life-time of unfailing, trouble-free service. Behind the Russwin reputation is an experience of eighty-seven years spent in bringing Russwin Hardware up to its present high standard of perfection.

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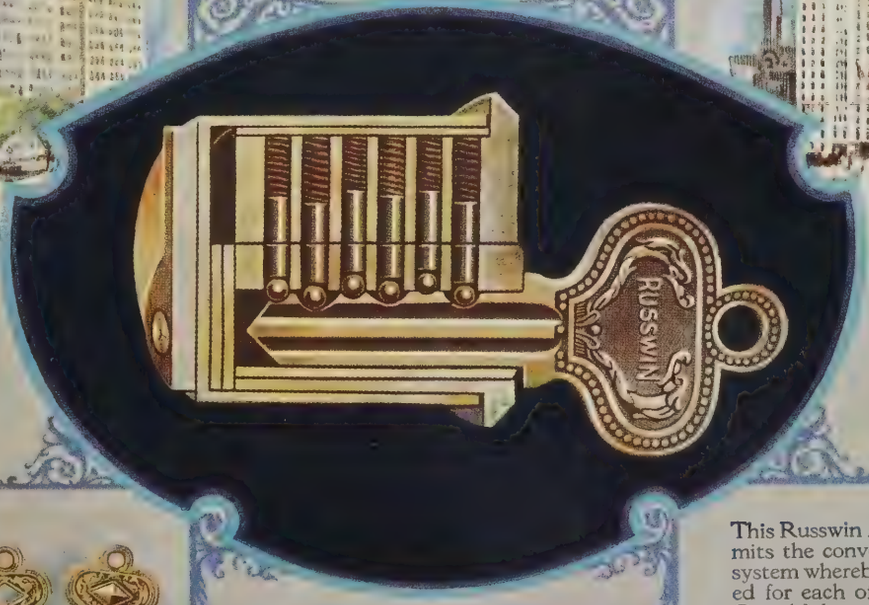

This Russwin Adjustable Cylinder permits the convenience of a master key system whereby a different key is needed for each of several doors, but one Grand Master Key will operate them all. Note, too, how ball bearings prevent key from direct contact with tumblers. This means security, and smooth action with a minimum of friction and wear. Easy to install since the case length is adjustable to the thickness of any door—an exclusive Russwin feature.

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STANDARD STP TEXTILE PRODUCTS CO
BRAND
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Look for this trademark on the back of the goods.

Style illustrated is reproduction of No. R4136 (⅓ actual size)

Are your pretty wall coverings to be victors or victims, *in their war with unseen forces?*

THE house settles, the plaster cracks and pulls; swelling humidity and heat contend with shrinking dryness and cold; the dust from open windows settles on the walls, and sweaty little fingers streak it in indelibly; a summer's sun chases the colors to a safer hiding-place. Is anything so buffeted and belabored as a wall covering? *Mustn't* wall coverings crack, peel, tear, blister and fade?

Not now. Not Sanitas. Victor, not victim, its fabric back is strong enough to hold the plaster firm, resilient enough to withstand the changes of temperature and moisture. And its surface of durable oil colors is immune from soil, impervious to moisture and stains; the dust and finger-marks you wipe off with a damp cloth.

Charming beauty; immaculate constantly; a practical durability; a protection for the plaster; an investment, not an expense—are these too much to expect of a wall covering? Not too much for Sanitas.

SANITAS
MODERN WALL COVERING
Makes your walls an investment

Styles for every room in the house

Plain and Pastel Flat Finish
tints that can be hung as they come, or stenciled, frescoed, or Tiffany blended.

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conventional and foliage patterns, neutral toned designs of vague formations, stripes, mottled effects, and reproductions of tapestry, grass-cloth, leather and various fabrics.

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plain colors, tile effects and decorative patterns, for kitchens, bathrooms, etc.

Ask your decorator to show you the new Sanitas styles.
Write to us for samples and descriptive booklet.

THE STANDARD TEXTILE PRODUCTS CO.
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When you visit Atlantic City, see our Sanitas Exhibit at 1410 Boardwalk, Central Pier.

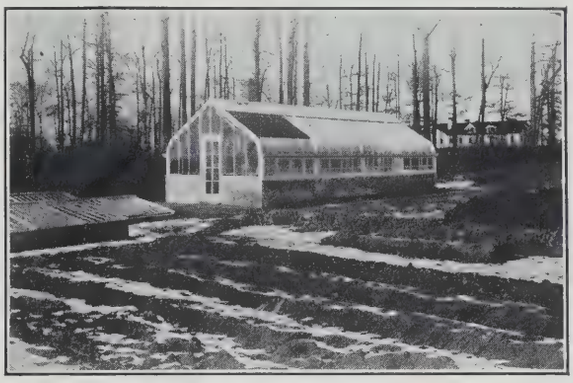
487 Square Feet of Perpetual June For $1700

FOR a $565. first payment and the balance in 12 monthly divisions, you can at once have this Sunshine Shop with its 487 square feet of gardening space.

$1700. buys the complete materials and the entire equipment of boiler, heating coils, ventilating apparatus, benches and everything.

Everything is cut and fitted ready for quick erection by your local carpenter.
The frame is a complete one of steel.

All wood is the best of heart Cypress.
Paint, glass, putty, nails, bolts, screws, everything is furnished.
No extras. No costly foundation. Just bed the posts in concrete.



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If you prefer, we will deliver and erect the house complete. Let us quote you.

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Now *Special Low Prices on Collections of* DIENER GLADIOLUS

Last fall we harvested the largest crop of Gladiolus bulbs in our history. This season we have enjoyed record breaking sales. Consequently we are ready to adjust the present stock of our various varieties of bulbs to better proportions. In order to make this adjustment quickly, we are making special low prices on collections of genuine Diener Gladiolus bulbs, guaranteeing these special prices for the month of April only.

Here is a real bargain for those who desire an abundance of lovely Gladiolus blooms on long, strong spikes and aren't concerned about identifying varieties. We offer

50 Full Size, Genuine Diener Bulbs in assorted varieties and colors (all bulbs unlabeled) for only..... **$2.00** **Postpaid**

If you prefer you may have 125 half and quarter-size bulbs for the same price. The quality is equal, but the smaller bulbs will yield smaller blooms and spikes.

Don't Miss This

If you are interested in the growing of named varieties of gladiolus you simply can't afford to overlook this remarkable offer—our

2-for-1 SPECIALS on Named Varieties

This is the proposition. Send us any sum from $5.00 to $25.00 and we will make up a special collection of genuine Diener named varieties, with every bulb plainly labeled.

We guarantee that the list prices of the bulbs in each collection will total twice the sum you pay for the collection. We further guarantee that every $5.00 assortment will have a minimum of 20 full size bulbs, and each $25.00 assortment, a minimum of 100 full size bulbs; the minimums of other collections to be in proportion. The higher priced collections will be based on the more unusual Diener originations, unless you request otherwise. If you prefer half and quarter-size bulbs, in larger quantities please indicate, and we will follow your wishes as far as the adjustment of our stock makes it possible to do so. Never before have you been able to make $1.00 buy $2.00 worth of genuine named Diener bulbs. Send any sum from..... **$5.00 to $25.00**

Gladiolus usually can be planted almost everywhere in April. So don't delay. Select YOUR Diener bargain to-day and send your money to

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Originators of Gladiolus and Petunias World-famous for size and high quality
Box 60234 Kentfield, Marin County, California
Diener leads the World in number of named and high score Gladiolus Originated

Wohlert's *flowering* Trees

A. E. WOHLERT — The GARDEN NURSERIES Narberth Pa.

Japanese Roseflowering Cherry — *Chinese Flowering Crab*

America's Finest Collection

THE famous flowering trees of China and Japan attract thousands of tourists to the Orient each spring. Now, right in your own garden, you can enjoy the glorious and inspiring sight of these trees with their blossoms of every shade from purest white to delicate pink and brilliant crimson. We offer you the choice of America's Finest Collection.

Kofugen Jap. Rosefl. Cherry; dbl. red, vigorous, upright; no great tendency to spread; a splendid tree where room is limited	6 to 7 ft. high . . $12.00 3 to 4 ft. high . . . 6.00
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Beni Higan Jap. Rosefl. Cherry; sgl. pink, very early;	5 to 6 ft. high 8.50
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Crab Atrosanguinea, sgl. red, bush form, extra heavy,	8 to 9 ft. high 20.00
Crab Atrosanguinea, sgl. red, standard or tree form,	8 to 9 ft. high 15.00
Crab Baccata, single, white, fragrant,	6 to 8 ft. high 15.00
1 Crab Floribunda Purpurea, purple foliage and flowers strong grower,	5 to 6 ft. high 4.00
1 Crab Scheideckeri, double, pink, free flowering, fruit fine for jelly,	5 to 6 ft high . 5.00

We have varieties of Oriental Flowering Cherries and Crabs from 18 inch to 24 inch at $1.00 each, up to the largest trees at $50.00 each. In addition to every variety of Oriental flowering tree obtainable in America, we offer

A COMPLETE ASSORTMENT OF NURSERY STOCK

Order promptly for Spring planting. Any of the listed trees will be sent upon receipt of check or money order. Many like to have us make selections; send check for the amount you wish to spend and we will gladly make up assortments to please you.

Catalog Free on Request

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Beautifully illustrated literature sent on request

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LIGHTING & FITMENTS

These fitments, typical of the Markel 6300 line, will grace the rooms of any home. Beautiful in design, perfect in proportions—they will be as thoroughly in good taste in the years to come as they are today. Made in wrought iron and decorated in the beautiful new Florian finish—a delightful blending of colors in polychrome effect.

You should see the complete line at your dealer's. You will find it a demonstration of quality, distinction and lasting beauty at moderate prices.

MARKEL LIGHTING FITMENTS, Inc.
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(*Continued from page 190*)

What new tendencies may be developed in the future it is difficult to predict. The Gladiolus has already expanded along so many distinct lines that it would seem now to be equipped to meet almost any new demand of fashion, either for color, arrangement, or form. It will be interesting to watch and see what will come next.

Prize Announcements

A $100 Dividend in Contentment

FROM time to time during recent months we have been publishing, under the general title of "Dividends in Contentment," little stories of people who have gone back to the land, people who have rediscovered "earth's undersong of comfort." It is a theme very near to many hearts to-day—this second coming of the land into her own, her reassertion of the vital part she plays in human lives and destiny. Through the whirring of much machinery we begin again to hear the still small voice.

For the sake of readers similarly seeking inspiration and direction and because we believe that "the swifter the pace, the sharper the tension of modern life, the more surely will the country—with all it has to give—come again into its own," we want to hear further from folk who have dared, and breasted, and bested the great adventure of living on the land.

For the most stimulating, authentic story of this kind which reaches us by August 1, 1926, a "dividend" of One Hundred Dollars ($100) will be awarded. Manuscripts, other than the prize-winning one, deemed suitable for publication may be purchased at regular rates. Articles not to exceed 3,000 words nor be less than 1,200 and to be accompanied by pictures of the homestead or farm, its garden, orchard, cattle, chickens, or whatever the special feature which affords success. Address: Dividends in Contentment Competition, % The Editors, GARDEN & HOME BUILDER, Doubleday, Page & Co., Garden City, N. Y. (Authors desiring manuscripts returned must so request and enclose postage for that purpose.)

For Garden Photographs $50

TWO prizes of $50 each are offered to Garden Clubs for the most attractive and interesting photograph (or photographs) of a garden made this year. Contest closes October 1st, 1926, by which date all photographs with explanatory details showing how the garden was made must reach The Editors. A club may submit one or more photographs of any garden in its district. The photographs must be suitable for reproduction and should have about a thousand words of explanation as to how the garden was worked, what it accomplished and some account of the most interesting features. We reserve the privilege of purchasing at regular rates any material submitted. Unsuccessful entries will be returned only when requested and stamps are enclosed for postage. Address: Photo Contest, % The Editors, GARDEN & HOME BUILDER, Garden City, N. Y.

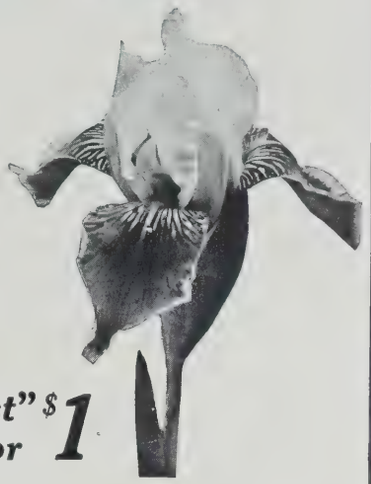
A Practical Improvement—$25

WHAT is your practical suggestion for bettering any plan of either house or garden, or both appearing in this issue? Each month GARDEN & HOME BUILDER offers a $25 prize for the most striking, practical suggestion for the improvement of any of the plans in the current issue. This applies to any plan printed in this month's number and replies must reach us by May 1st. Unsuccessful entries cannot be returned, and the right to use any (at regular space rates) is reserved. It is not necessary for you to make a carefully finished drawing, just so long as the meaning is clear enough for our draftsman to render it properly.

It may be that you can see an improvement by stealing space for a closet, or adding an extra bathroom; the approach to the garden can very often be made more practical, more fitting; or perhaps, it is the garden itself that can be bettered. These are but suggestions by way of example. Address entries to: Monthly Improvement Contest, % The Editors, GARDEN & HOME BUILDER, Garden City, N. Y.

Alexander IRISES

NEXT to Dahlias, I believe I like Irises best! Why? Because they are so easy to grow, in any soil, and they never fail to bloom profusely, even on poor ground. Among Irises I play no favorites. I grow Germanica, Siberica, and Kaempheri and especially of the lastly named (Japanese Iris) I have a very fine collection of named sorts. To get you started right I offer



6 of the "Very Best" Iris Postpaid for $1

Flavescens—an old, very fragrant favorite, of soft yellow shade.

Herant—a tall, stately lavender-blue—perhaps the finest of all blues.

Kochi—one of the choicest among royal purples.

Queen of the Gypsies—a symphony of bronze and purple shades. 35c each, $3.50 per dozen.

Siberian Blue—a rich blue of exquisite shade.

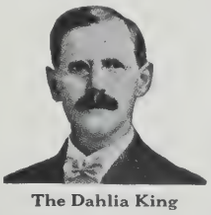
Siberian White—the white form of above.

Price, any of above (except as noted) each 25c, dozen $2.50

SPECIAL OFFER: One each of above splendid sorts will be mailed postpaid for ***$1.00.***

Complete Catalogue Free

Besides being one of the greatest (and most reliable) guides to greater Dahlia Gardens it introduces the choicest among Iris, the famous Hollis Collection of Peonies and other worth while Perennials. Gladly mailed on request and please mention Garden & Home Builder.



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World's Largest Dahlia Grower

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FLOWERING CRABS

MALUS FLORIBUNDA PURPUREA. A new hybrid crab-apple with reddish purple flowers, delightfully fragrant, followed in Autumn with ornamental red fruits. $4.00 each.

FLORIBUNDA NIEDZWETZKYANA. (*Pink Siberian Crab.*) Deep pink flowers, purplish fruit. $2.50 each.

FLORIBUNDA, VAR. ATROSANGUINEA. Fragrant flowers, carmine in bud, opening to a lighter shade. $2.00 each.

FLORIBUNDA SCHEIDECKERI. Handsome double flesh-pink flowers. $2.00 each.

SPECTABILIS. (*Chinese Flowering Crab.*) Semi-double bright pink flowers, followed by ornamental fruits. $2.00 each.

A Collection of one plant of each of the above five varieties for $10.00

Our 1926 Garden Annual mailed on request.

R. & J. FARQUHAR COMPANY

6 South Market Street **Boston, Mass.**

For Your Garden

Plan for more Dahlias in your garden this year. If you wish the best results, plant some of our fine "Kentucky Bred" tubers. They will repay you bountifully in late summer with their exceptionally large size and vivid colors. Amun Ra, shown here is a distinctly different flower. Copper, orange, gold and amber with a deep bronze center. This dahlia won first prize four years running at the California Dahlia shows.

Decorative Dahlia, Amun Ra

Dahlias, Glads and Roses

in "Kentucky Bred" quality. A large variety of Gladiola, fine well formed flowers in sharp contrasting colors. Be sure and plant a few this year. In Roses we offer a wide range of choice in both bush and climbing varieties. Plant an arbor of Dorothy Perkins and Mary Lovett.

Iris, Hardy Perennials and Ornamentals

It isn't too late to plant a few Iris this spring. Hardy Perennials are extremely popular at the present time. You can reproduce all the charm and beauty of your grandmother's garden at low cost. Evergreen shrubs and other ornamentals add beauty to the lawn or around the house. You will find all these items listed in

Your Copy

of our 1926 catalog. If you wish bargains, write for our Special Offers on complete flower gardens. Your copy of the 1926 catalog will be sent you at once. Write us today.

Jacob Schulz Co. Inc.

Department A **550 So. Fourth Ave.**
Louisville **Kentucky**

MICHELL'S
Everblooming
BUTTERFLY BUSH
(BUDDLEIA VARIABILIS MAGNIFICA)

POPULARIZED by us in 1911, the butterfly bush has established a remarkable record among flower lovers. While many other "novelties" among the hardy shrubs have had a brief season of success, then faded from sight, this wonderful shrub is increasing in favor every year.

And to those who have not planted it before, its many superlative qualities make an appeal that few new high-priced novelties can equal.

Extra strong plants, which will bloom the first season, 3 for $1.25; 6 for $2.00; postpaid. 12 for $3.50; 25 for $6.50; 100 for $20.00; by express, *not prepaid.*

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The first season, a single plant will throw as many as fifty flower spikes, about eight inches long, each of which is made up of myriad miniature florets with a gorgeous blending of lilac and heliotrope.

A single plant perfumes the whole garden until severe frost comes. In all the garden no other plant draws so many brilliantly colored butterflies.

Ideal for cut flowers—its sweet scent pervades the whole house. Perfectly hardy, too, with less winter protection than you give a hardy rose bush.

Michell's Green Velvet Lawn Grass Seed

Assures you a lawn of lustrous green beauty, which will withstand Summer's sun and Winter's freezing. An ideal mixture for the man who wants quick results and enduring satisfaction.

By parcel post anywhere in the U. S., 30c pt.; 55c qt.; $1.00 for 2 qts.; $1.70 for 4 qts.; $3.00 per peck; $11.00 per bushel,

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HENRY F. MICHELL CO.
520 Market St.,- Philadelphia

(Continued from page 165)

from Villa to Villa by back ways and cuts which the traveller would never discover. Permits for some of the villas may be obtained, however, by applying to the "Municipio"—or town hall.

The first villa to be visited is the Torlonia, built at the foot of a wooded hill, from the summit of which a torrent comes dashing down into an elaborately carved basin, and supplying the jets of a great number of wall fountains. The scheme is vast and imposing, made more so by the majesty of the enclosing forest, and the still sunlight falling athwart the grass. Our next visit is to the Villa Albobrandini, where another cascade comes down a hill, furnishing the water for an intricate system of fountains, some of which are said to play music when royal or very distinguished guests come to call. We next pass by an interesting villa of one of the Bonaparte family and arrive at the Villa Falconieri which rumor reports had been recently given to Gabriel d'Annuzio. Here we see a magnificent residence, and several monumental gateways, but the glory of the villa is its Pool. This is rectangular in form, and is surrounded by tall Cypress trees. No scheme could be simpler, none more impressive. The lofty trees, a sable colonnade, enclose what seems a sacred solitude whose reverent silence is intensified by the reflections in the water. Here we are in the presence of a really great masterpiece of garden-design. In our own country, at the Country Life Press (the home of GARDEN & HOME BUILDER) is an excellent reproduction of this pool, where the Cypress trees are translated into our own native Red-cedars, producing an effect quite comparable with that at Frascati. There is one more villa to be seen, and the sunset hour is the best time for our visit. This is Mondragone, a fine old building, whose terraces command a superb view across the Campagna, over Rome to the Sea. A boy's school occupies the place, and no traces of the old garden remains.

The Villa Lante at Bagnais and the Villa Farnese at Caprarola are, perhaps, the most important ones in Italy, and are worthy of the all-day trip from Rome to visit them. Permission to visit the Farnese Villa is obtained by calling in person on Avocato Grimani at his office, No. 41 Via Arenula, Rome. One is admitted to the Villa Lante on application to the caretaker at the gate.

We should start very early in the morning by motor, or by train for Viterbo and hire a motor there, and make Lante the first visit. A bright day is preferable for all villa visits, but this one, seen under a showery sky breathed a sentiment of mournful beauty, of proud and venerable neglect, that was not at all unbecoming. The two houses forming the residence had closed shutters; the fountains, overgrown with ferns, were trickling idly, grass had not been clipped, no flowers nor potted plants had yet been put out in the chilly spring air; moss had grown inches thick on cornices and vases and gray lichens had toned down the marble seats and statues. But the works of time and nature had enhanced the charm of the place. Trees had grown majestic, hedges opulent, and no frost had displaced the stonework. Three great fountains were in working order, and a rill of dancing water flowed gaily down its marble channel. Here was garden magic of the subtlest kind.

It is a long ride to Caprarola, close to which town arises the immense Farnese Villa like a huge fortress with moat and bastions. We traverse the great circular court to the gardens, and climb a hill to an exquisite pavillion with arched porticoes. An elaborate pattern in Box hedges shows where the flowers were intended to grow, and this deserted garden is guarded by dumb giants in carved stone. Two river gods of ancient mien flank a huge vase, from which pours a stream of water that rushes down a long stone channel to a fountain basin below. Though unkempt, and apparently neglected, this villa has preserved its proud aspect, and leaves an impression of austere dignity.

If the traveller returns to Rome by train, it may be found more convenient to motor to the little station of Ronciglione on a branch line and change cars at Capranica.

We should make an excursion from Rome to Tivoli by motor or by steam-tram, starting from the Porta San Lorenzo, and break our journey at Hadrian's Villa, there to wander over the ruins and try to reconstruct in imagination the abode of the Emperors. The villa is open daily to visitors on payment of admission, Thursdays free.

Continuing our journey by tram, we reach the village of Tivoli, where a crowd of unnecessary though importunate guides greet us, and cab-drivers try to lure us away to see the Falls. A very short walk through the village street brings us to the unpretentious entrance of the Villa d'Este, open daily on payment of admission, Fridays free.

We descend to a dim corridor and come suddenly out, dazzled and amazed, upon an aerial balcony, far above the valley, and on a level with the tree-tops. The transition from the dark cellar to the giddy height is dramatic in the extreme. The hill below us falls away abruptly, and we see no foreground save the forest far below among whose openings we here and there discover a fountain, a statue or a pool of green water. Descending the six terraces, we find that each one has some new surprise to disclose, some prank played in water. For water is the animating principle in the Este Garden. With cascades, jets and rills, it gives life to the whole place which would otherwise be silent, melancholy and forlorn. The lowest level is yet high above the valley, a terrace clinging to the hillside, a hanging garden and fores

(Continued on page 198)

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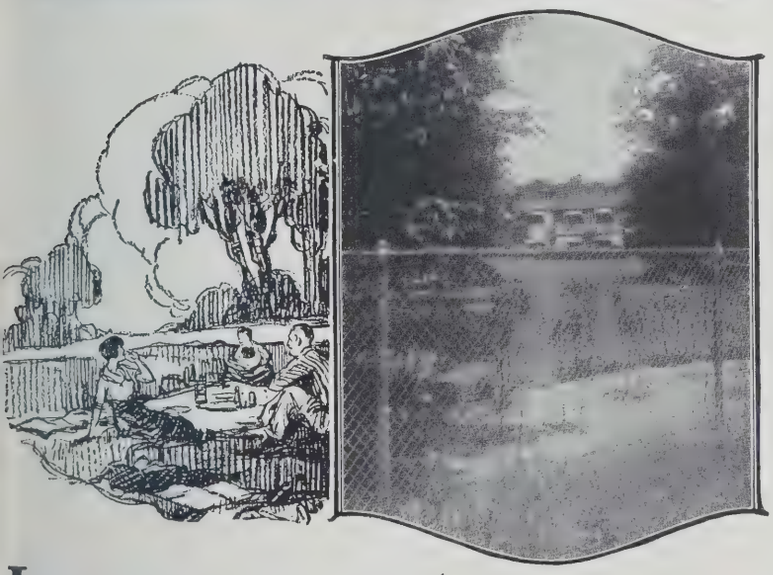

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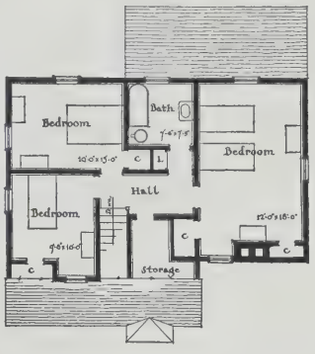
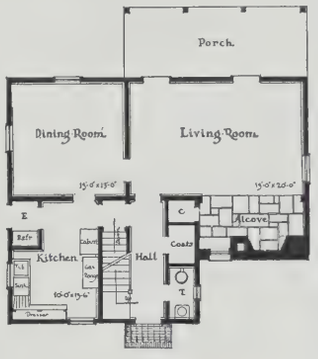


SECOND FLOOR



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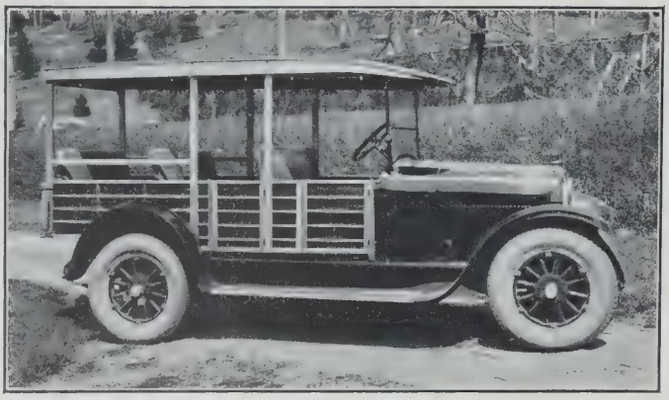

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(*Continued from page 196*)

retreat whence we may look down upon factories, railway tracks, and electric works belonging to a restless modern world.

We next hasten onward to Florence, for spring comes early to the Valley of the Arno. A Sunday or Thursday afternoon we may like to pay a visit to the Boboli Gardens which are then open, and we will surely rejoice in that portion of them high up by the city walls, called the "Gardino del Cavalliere," opened by the guardian for a small fee. The place is a secret garden having a fountain ornamented with monkeys, and Box borders where Roses and Peonies bloom. The charm of the place lies in its perfect seclusion, combined with a splendid view over valleys and castellated hills. But these hills with their Olives and Grape vines lure us out of the city, and we make our first excursion toward Fiesole.

We write a few days ahead, asking Lady Sybil Scott and Mrs. Gregory Smith permission to visit their gardens, and having received these, take the tram or a motor to San Domenico and there ask the way to the Villa Medici and the Villa Belriposo, both beautifully situated on the slopes overlooking Florence. Another, the Villa Bondi, may be reached from San Domenico by descending the Via della Piazzuolo. The owner Cavalliere Bondi sometimes allows visitors.

One of the most imposing villas with sumptuous grounds is the Palmieri formerly owned, and graciously shown by the late Commander James Ellsworth. A request to visit the grounds should be addressed to his daughter, Mrs. Bernon T. Prescott at the Villa, Via Boccaccio, who may still allow visitors to enjoy the garden with maze, swimming-pool and beautiful alleys. Queen Victoria twice made this villa her winter home. This is most easily reached by motor or tram from the Piazza della Signoria to the Via Boccaccio.

For another excursion we obtain a "permesso" at the Pitti Palace for admission to the villas Reale and Petraja at Castello; write to Prince Corsini for "permesso" for his villa, also at Castello; and to Signor Stracchini at 67 Via Giucchiardini for admission to the Villa Corsi-Salviati at Sesto. We then embark on the Sesto tram, or take motor, and stop first at Castello at the Villa Reale which has a stately garden with fountain by Il Tribolo.

The gardener will show a back way leading to the Villa Petraja, and descending the hill, we come to the Villa Corsini. This can be recognized by the immense clock dial ornamenting the façade. This garden has an intimate charm, as of a home. Continuing our journey beyond Castello, we reach the village of Sesto, and find the first place on the left of the entrance is the Villa Corsi-Salviati. The garden is richly embellished with statues, has a maze and a theater whose wings are formed by clipped trees, and a long, narrow pool which stretched far away under an archway of pleached trees, forming a cool and alluring vista.

Another trip takes us, by tram or motor to the Certosa, then up a long hill to the gate of Villa Colazzi, also known as Bombicci, where we discover a long Cypress alley leading to the house. We send our card in to the custodian and are admitted to wander over the grounds at will.

It is said the Michel Angelo worked upon the design of the residence, and this we can easily believe, for we feel the presence of a master hand in the simple grandeur of the loggias which overlook Florence and the Valley of the Arno. Tall trees surround the villa, and a series of terraces descends at the back, forming a dignified setting for a hospitable home. The Villa Gambaraia is one of the most important near Florence. By writing to Miss Milles at the Pension Norchi, Lungarno della Zeccha, Florence, we obtain a card of admission, then take a motor or tram to Settignano where the villa is situated on a splendid site overlooking the Arno Valley. The striking and unusual feature here is the arrangement of ponds forming a water parterre amidst flowers and Box borders. One should note the fine restraints on the part of the garden architect, who had given the house a glorious outlook in each direction, but has dared to shut out the view from his garden with lofty hedges, lest the lure of the distance should take away the interest from the intimate charm of his garden.

The following is an excursion which the writer made, though a long one had a certain interest to compensate. Taking the train to Segna, ten miles from Florence and then a rickety cab for a two-mile drive up a long and stoney hill, I arrived at the gate of the Villa Campi, and, on explaining my mission was admitted by the custodian. Here I found that the house was small and recently built, but the park with its long avenues, the statues and fountains, the terraces with their grand outlooks constituted the glory of the ville. When I asked the owner's name I was not a little surprised to learn that it belonged to the son of Enrico Caruso.

Comparing the villas of Rome with those of Florence, we remark that the former boast of more splendid architecture, and grandiose backgrounds suitable for pageants and festivities, but that the latter have more intimate charm, and are distinctly places to live in and to enjoy for a long sojourn.

Moving on to Siena, we drive out to Vicobello on a near-by hill, from whose terraces we get a fine view of the walls and towers of the ancient town. Sending in our visiting cards, we are admitted and shown around by the old gardener who bewails the lack of rain and the dearth

(*Continued on page 200*)

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2 The large stretches of bare floors in my living room are now always a joy to behold—a few minutes' easy work quickly renews their polish.

3 My Ponsell wends its way just as easily through the narrow spaces between the rugs of my breakfast room—it's no trick at all to guide it.

4 "Will it polish right up to base boards and into corners?" Yes, without any difficulty. There—I polished that corner, not a dull spot left!

5 And I can even polish under my furniture without moving it. My Ponsell reaches under without any trouble whatever. Hasn't it all become easy!

6 SCRUBBING is just as easy. I simply attach the scrubbing brush and watch my kitchen floor turn snow white. Isn't it better than a sloppy mop!

7 And the squeegee supplied with my Ponsell dries up the floor in a jiffy. Oh! By the way—the other day my Ponsell saved me a lot of money.

8 REFINISHING (doing over) my stained, scratched bedroom floor and bringing it back to its original beauty and freshness was child's play.

9 This is how I did it: I first attached the steel wire brush and went over the floor having previously applied to it a coat of Ponsell Remover.

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(*Continued from page 198*)

of flowers. We see a fine Lemon garden, terminating in an attractive stone niche, with a table formed of one huge slab. The garden is beautifully kept up in the style of the Renaissance designers. On the drive homeward we stop at the Villa Gori, whose doors are courteously opened to us, and we pass under wonderful pleached alleys forming cool tunnels of verdure, to the open-air theater whose scenery is made of living green Cypresses, clipped into formal wings. The position is such that full afternoon sunshine shall fall upon the actors while the audience sits in tle cool shade. There is another sylvan theater at the Villa Sergardi, about one mile further from Siena in another direction.

Lucca is the next convenient stopping place, whence we may go by motor, or by one or another of the tram lines to the following villas:—

The Bernardini, is a handsome country residence with extensive park and an interesting arrangement of fountains and pools. The caretaker, a kindly woman, admitted the writer without any special permit. The Torrigianni was likewise accessible through application to the gardener. It is approached through a magnificent alley of Cypress trees, and has a long, narrow pool bordered by the same, reminding us of Falconieri. A double flight of steps leads down into an enchanting secret garden full of gorgeous flowers and rich fragrance and where, in a dainty Rococo pavilion, are concealed water surprises, hidden jets and sprays wherewith the ancient proprietors used to play practical jokes upon unwary guests. The Collodi, built against a hillside, exhibits a pretentious arrangement of cascades and statues interspersed with gay flowerbeds of intricate design. A quaint feature is a dainty little bathing pavilion, with elaborate interior decorations, and provided with a gallery where an orchestra could entertain the bathers with music, while in their tubs.

All these villas were open on application, with the exception of the Villa Marlia, considered the finest in the vicinity of Lucca, which was rigidly closed at the time of the writer's visit.

A short journey brings us to Genoa, whose steep hills sloping down to the sea form ideal sites for villas, ancient and modern. Unfortunately many of the fine old villas have been swept away by the march of Progress, and the modern ones, fantastic and ugly, have taken their places. However, at the Villa Durazzo-Grapallo, we find a small but charming old garden hanging high above Genoa, and looking off over the blue sea toward Corsica. Admission on request at No 27 Piazza Contani Marisi we ask for a "permesso," and then go to visit the garden of Villa Pallavicini, which is situated a little below the previous one. Near the Railway Station we find the Palazzo Doria-Pamphili, open to the public at all times. The Palace is now used for offices, and the gardens which once stretched from the waters of the bay to far up the hill behind the Palace, are now cut off by piers for steamers on one side and by the railway on the other. Yet in spite of this curtailment, the place is still impressive.

Going northward to Milan and eastward to Verona, we visit the Giusti Garden and the Villa Cuzzano, both being shown on request then on to Padua and take a glance at the free Public Garden, circular in plan and venerable of aspect. From Padua we make a digression to Battaglia for a day, and drive out to the Villa of Conte Dona delle Rose, which is shown on applying to the gardener. This is considered one of the finest villas in Italy, on account of its admirable design. The plan is large and simple based upon a long axis of Cypress alleys stretching from one hilltop, down and across a valley to an opposite crest. Across this cuts a line of pools and ornate fountains. while in the compartments formed by the intersection, but hidden by hedges are a maze, a fish-pond, and a lake with an island inhabited by many lively rabbits. There are also water surprises, concealed jets with which to besprinkle some of the guests and amuse the others. The dames and cavaliers in satins and laces must have presented sorry sights when made victims of these practical jokes!

Returning to Padua, we go on to Venice and visit the garden of Mrs Eden where visitors are cordially welcome, whence we can look off over shining lagoons, and past boats with gaily colored sails, to the distant Euganian Hills. The garden is quite informal, but opulent with flowers, and replete with the Old World charm.

Another garden in Venice belonging to Mr. Humphreys Johnstone an eminent American artist, is said to be very beautiful, but it is very difficult to obtain admission there.

A day's excursion should be made from Venice by steamboat to Stra to see the long line of old palaces and villas bordering the Brenta Canal once the summer homes of the Venetian Aristocracy, but now deserted and forlorn. The palazzo Pisani is one of the most important of them and can be visited on request, though scarcely a trace of the once grand formal garden remains.

Retracing our steps by way of Milan, we go to the Italian Lakes whose mild climate and advanced season fill us with surprise. In spite of northern latitude and proximity to ice mountains, they rejoice in a climate resembling that of the Riviera, and their flora include Palms, Figs, Bananas and other vegetation peculiar to warm countries. The air is redolent with the fragrance of Orange, Lemon and Jasmin blossoms, mingled with the odors of Camphor trees, Ecualyptus, Bo and Bay. At Isola Madre grow Coffee, Tea and Cinnamon, and at th Villa Carlotta is a jungle of Australian Tree Ferns. Vegetation her

(*Continued on page 204*)

When you and spring are thrilling to the first ball game of the year—and your favorite player drives out a homer—when the stands rise, roaring with cheers

have a Camel!

WHEN spring and the first ball game are here. And the shouting banter flings out on the sunlit air. When the heavy hitter cracks the ball, shrieking into deep center-field for a home run —oh, happy mortal, as the stands roar with glee—*have a Camel!*

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You can have Giant Washington Asparagus on your table next year if you plant our Giant Roots this Spring. Year after year you will have an abundance of tender stalks to be served in many delightful ways during the Spring and Summer, and in the Fall quantities of feathery green sprays to embellish cut flowers.

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SEND FOR THIS FREE BOOK

(Continued from page 200)

knows no winter sleep. The Christmas-roses are followed in February by Hepaticas and English Primroses, and soon after them the banks of Camellias and Azaleas burst into bloom. The gardener in this luxuriant clime finds it useless to try to confine his planting within a formal design, so allows the redundent growth to run riot everywhere, hence the villas of the lake region have a peculiar charm, and a character all their own.

Bellaggio is a good stopping-place on the Lake of Como, whence we can climb to the Villa Serbelloni (admission fee) and can drive to the Villas Giulia and Melzi, both open on request, but the latter on Sundays or Thursdays. Then by steamer we cross the lake to Tremezzo, visit the Villa Carlotta (admission fee). The Azaleas blooming here in the month of May, clothing the banks in sheets of gorgeous colors, form a vision never to be forgotten.

At Tremezzo we may charter a rowboat and oarsman and row to the water gate of the Villa Balbianello (Open Tuesdays and Fridays, fee to gardener).

The Villa Pliniana is visited by taking steamer to Torno and rowboat to the water-gate, open Tuesdays, Thursdays, Saturdays and Sundays on payment of a fee to the caretaker. This place is unique among the villas, being little more than a house on a ledge under a cliff and over the lake. A waterfall comes roaring down almost upon the roof, but passing behind and under a tunnel, emerges and falls in foam into the lake. In the courtyard an intermittent spring pulsates,counting off the time as it has counted the centuries, ever since Pliny made this place his home. Soft green light from lake and trees, ceaseless sound of falling waters, cool dampness and spray gives us an illusion that we are in a sea-grotto, and suggest vague images of nymphs and mermaids, lulling us into forgetfulness of hot sunshine and dusty railways.

It is but a short journey from the Lake of Como to Lake Maggiore, but we break it at Varese in order to see a villa at Bisuschio, a few miles out by a little tram-line. This is the Villa Cicogna, belonging to Count Cicogna who loves and takes pride in his beautiful home, and allows visitors to see the gardens on asking.

Though a small villa, it possesses much charm. The house is built around three sides of an arcaded court, the fourth side of which

(Continued on page 205)

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Booklet C — Booklet A — Booklet B

When writing it is sufficient to indicate by letters the booklets wanted

Yours for the Asking

For the convenience of the many, planning to build this Spring, who are unable to visit our galleries, we publish several fully illustrated booklets as pictured above.

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The first arrivals in the spring will be attracted to your garden and spend the season with you if you invite them by putting up a Bird House, Bath or Feeding Station. Our houses are scientifically correct and our prices are very reasonable.

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Ready for paint. 2-story, comps. 75 lbs. only $10.5
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Where this beautiful bird bath is pl
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tifically correct; of classic design;
21" diam.; pedestal 26" high, 75 l

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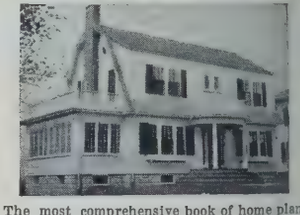

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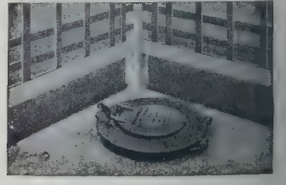

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C. H. STEPHENSON, Mfr
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(Continued from page 204)

opens into a fascinating secret garden ornamented with Palm trees, fish-ponds and fountains weedy and old. At the north side are pretty terraces looking off to the distant blue hills, and from the wooded slope behind the house a swift and foamy stream comes down, to lose itself in a basin of carved stone. Here one thinks not of pageantry and display, but of comfort and hospitality.

From Varese we go on by rail and boat to Stresa on Lake Maggiore in full view of the Barromean Isles, as they call Isola Bella and Isola Madre. These may be visited by row-boat or steamer in one day, an admission being charged at each landing. The first of these is exuberant with trees and flowers and is scarcely to be classified with the formal gardens. The latter is a remarkable assemblage of terraces, statues and fountains, built at great cost but in the taste of the Rococo period. The one a work of Nature at her best; the other a work of art, when Art had passed its prime.

We may fitly close our garden pilgrimage with a visit to a villa singularly interesting in its origin, and quite magnificent in its aspect. This is the Villa di San Remigio, situated half-way between Palanza and Intra, and reached from either place by a short drive. The especial point of interest here is that the villa is not an old one, counting by years, but that it is so remarkably well designed in accordance with the best principles of old garden design that it possesses the aspect and all the charm of a master-work of the older times. It was designed and built some thirty years ago by the present owner, the Marchese delle Valle di Casa Nova, a gentleman of high culture and thorough understanding of the principles underlying the ancient garden scheme. He lives to enjoy his work in its mature growth of trees, verdure and flowers, and graciously permits the public to visit the grounds at all times.

The residence occupies the summit of a high and wooded hill, commanding an extensive view. Toward the formal garden, the slope descends in six lordly terraces, ornamented with fountains, statues and vases brought here from old villas, now demolished. Under the terraces are amazing grottos, for cool shade in summer and warm shelter in winter. This villa should arouse especial interest in American travelers, as it demonstrates that the ancient garden-craft is not dead, but can be revived and applied to the embellishment and comfort of the modern home.

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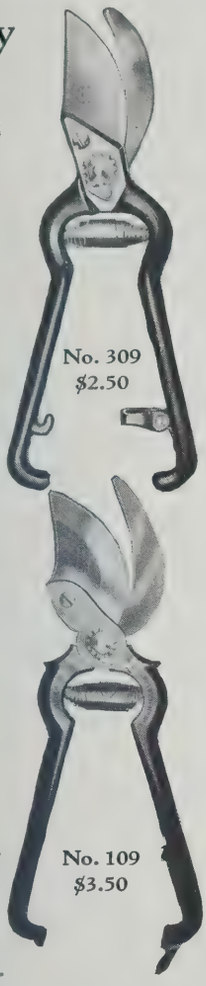

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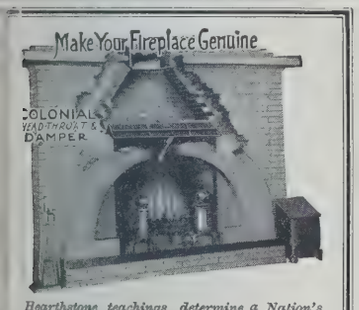

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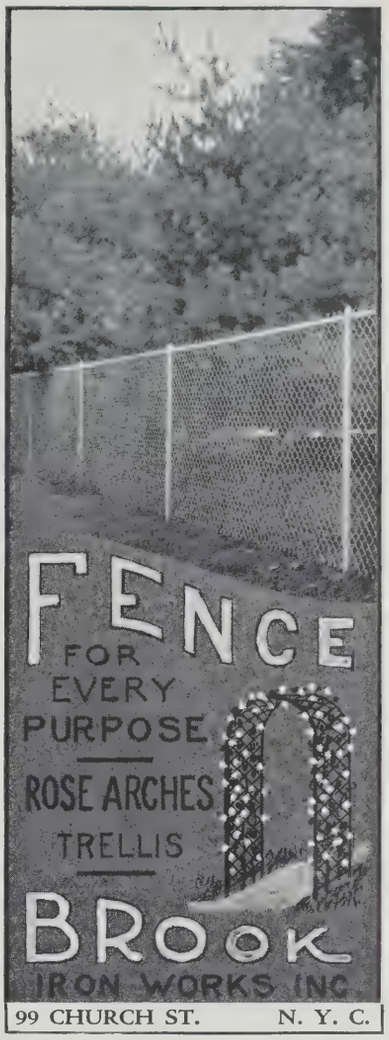

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A turn of the white handle—a cutting spray of hot, *soapy* water removes dirt, grease and food particles. Another turn gives scalding *clear* water for rinsing the dishes thoroughly clean. They dry *without wiping*. DARLO fits any faucet. Special Spray brushes for pots and pans. See how simple and practical it is.

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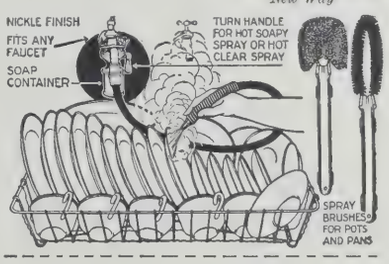
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***Florida Branch*—Bradenton**

HODGSON *Portable* **HOUSES**

(*Continued from page 157*)

The builder's account of operations on the Prize House follows:

Received the plans and specifications of Prize House, October 16, 1925.

Plans filed with Village Clerk—October 17, 1925.

House staked out October 17th. Began to excavate October 19th for sewer and water pipes to street.

Excavation for main foundation was finished October 21st, 1925.

Carpenters began framing 21st day of October. House was framed and ready to be put up in 9½ days.

On account of Zoning Ordinance, plans were held up until Saturday, October 24th. Therefore, I had to wait until Saturday before I could begin putting in footings for foundation. Saturday being a half holiday, only the footings were put in. Monday, Oct. 26th, I began putting up wood forms for concrete foundations. Forms for main foundation being up, I began pouring the foundation, Tuesday, October 27th about 3 o'clock and Thursday, the main foundation was up. Excavation for trench walls of maid's room and bath and garage was started Thursday and concrete was put in Friday. All foundations were up but the porches and open terrace. Excavation for porches began Friday and concrete was poured Saturday for porch foundation.

SECOND WEEK. Put sills and girders in place and first tier of floor beams, Saturday October 31st. This second week's work was accomplished with myself acting with foreman and (8) carpenters and 4 apprentices. The work done by the apprentices was putting in concrete, helping with building forms and taking forms down and cleaning boards for use again in sheathing on outside of the frame of the building. This makes a total of 10¼ days for carpenters and 19 days for labor work done by apprentices.

THIRD WEEK: In the week beginning Nov. 2nd I began raising building before I removed wood forms from the concrete foundation. In this week's work I had 8 carpenters and 4 apprentices. Work accomplished with these men for the third week: house raised, sheathed, rough floors laid, fire stops put in on two floors, Rafters up and shingle lath on. Wood forms taken down, shingle roofs partly on. Total days work: 21 days for apprentices; 40 days' work for carpenters, that is, 40 days work for one carpenter.

FOURTH WEEK: Week beginning Nov. 9th: Finished shingle roofs and cornices on outside of building, setting door and window frames, siding outside of building with red cedar siding ¾ x 10 in., laid 8" to weather with mitre corners; partitions set inside, nailing up bridging, cutting for plumbers and steam fitters; doing all furring for lathers. Number of carpenters 11. Number of days work for the 4th week for carpenters 50 days for 1 man; apprentices 4 days for 1 man.

FIFTH WEEK: Work done; siding and setting jams for covered porch, ceiling porches; setting grounds for plastering, getting out third story stairs, fitting and hanging sash and blinds for windows where shown, putting up wood forms for copings for area-ways and porches, finishing all outside work. Building scaffolds for bricklayer for chimney. Number of carpenters 6. Number of days for carpenters for 5th week, 25 days for 1 man, apprentices 4 days' work for 1 man.

SIXTH WEEK: Only foreman worked for the first part of week attending to plasterers and getting things ready for trimming. Foreman began setting door jambs Nov. 27th the last part of the sixth week. Number of days work for carpenters 6th week: one man 6 days.

SEVENTH WEEK: Began trimming doors and windows, hanging doors, putting up main stairs, rail and balusters, dressers in kitchen, breakfast room set of 2 seats and table, laundry in cellar, ceiling boards. Work done seventh week with 9 carpenters: 34½ days work for 1 man, 2 days work for one apprentice cleaning floors of mortar, etc., and keeping place in order.

EIGHTH WEEK: Number of carpenters for first part of week 8 men for 3 days, last part of week, only 1 man. Total number of days for carpenters 1 man—26 days.

Floor layer began laying finish oak flooring first part of eighth week. Flooring laid by one man in 7 days. Floor laying was contracted to floor layer and not figured in with the carpenter's time.

NINTH WEEK: Only one carpenter putting down floor mouldings, cutting doors for door saddles. One man, four days for the ninth week and all work done except inside painting.

I had front entrance door and one pair of doors on open terrace metal weather-stripped on account of no roof over same or any protection from rain.

Total number of days work for carpenters 205¾ days. Carpenter's helper, 50 days. Mill work done in shop, such as, doors, window frames and sash, dressers, breakfast room set, frontstairs in knock-down, carpenters doing all other work except mill work mentioned above. Carpenters erected main stairs, made third story stairs and erected same; mantel was made by carpenters on the job. All forms for concrete work, such as foundations, trench walls, areaway copings, outside cellar steps and porch floors were made by the carpenters. All carpenter work beginning with erecting forms for concrete work, rough framing, all exterior and interior work was done by the same group of men.

Plumbers and steam-fitters began their work as soon as I had rough floors laid, running soil pipes and water pipes. Steam-fitter putting in work while carpenters were putting up frame and putting roof on, so that when roof was on, I was ready for the lathers. The electrician also put on a force of men as soon as the partitions were set and as soon as inspection was made, the lather began putting on wood plastering lath; November 10th, the plasterers began plastering with one man. Nov. 12th–Nov. 13th, 2 plasterers, two coats of scratch and brown, one of white coat lime and plaster. Plastering was finished Nov. 27th.

Tile-setter began setting tile Nov. 25th.

Cement workers putting in cement (porch floors, and terrace) began work and finished Nov. 25th.

Painting of siding was done as follows: First coat as soon as it was up, staining of roof two coats of shingle stain.

Copper leaders and gutters were installed promptly, that is, as soon as I had the work ready, the metal contractor was doing his work. There was no delay.

All mill work was done at the mill, so there was no hold up for material of any kind.

Bricklayer contractor was ready to do his work, and the fireplace and chimney were up and ready for fire in the furnace. Fire was started in furnace Nov. 23rd for drying plaster and to dry house for trimming.

Bricklayer, putting up chimney, dry wells for leaders, areaways, front entrance brick. All this work was done and finished by November 25th.

All outside work was finished Nov. 25th, except painting.

All plastering work finished inside Nov. 25th, except stairbacks and finishing bathrooms, which wase done when the tile-setter had finished.

Work of all mechanics of different trades was done from Nov. 2nd, after the foundation was up, until Dec. 25th.

DETAILED SCHEDULE OF MATERIAL AND COST OF GARDEN AND HOME BUILDER PRIZE OFFER HOUSE, COLONIAL TYPE

Excavation for cellar 2 ft. larger than house—224 cu. yds. at 50 cts. cu.yd.	$112.44
Excavation, footings, trench walls, areas, 17 cu. yds.	17.00
Back filling around foundation, filling in porch and terrace floors, 30 cu. yds. at $1.00 cu. yds.	30.00
Excavation—dry wells for leaders, drains, 3 cu. yds.—at $1.50 per cu. yd.	4.50
1,500—No. 2 bricks at $22.00 per M	33.00
Laborer laying up dry wells—2 days at $8.00 per day	16.00
70 lin. ft. 4" tile pipe for drains	15.00
7 4" ells	1.50
Foundation, trench walls, footings, 55 cu. yds. concrete cement and labor	268.00
Carpenter Labor—building forms and taking them down; cleaning boards of nails	255.00
Wire for forms 1 x 2; cut up material wasted in forms—⅛ sheathing	15.00
200 8 x 16 cement blocks for areaways at 18 cts. each	36.00
Labor for putting up areas	45.00
Cement and lime	7.00
50 cu. ft. concrete for outside cellar steps—Labor and material	40.00
Cement cellar floor and cement floor under maid's room and bath—892 sq. ft. at 12 cts. sq. ft.	107.04
Note: All sand and gravel for construction work was dug out of cellar excavation.	
Front entrance, porch and steps—20 sq. ft. 6 x 6 quarry tile, 175 tapestry brick	9.62
Mason and helper for labor—2 days each	44.00
Cement and lime (for tapestry brick)	2.60
Open porch and terrace floors—18 bbls. cement $3.00 per bbl.	54.00
Masons and helpers: labor—3 masons, 4 laborers—1 day each	63.00
Garage floor and apron contract at 22 cts. per sq. ft. 240 sq. ft.	52.80
Contract—Fireplace and chimney	380.00
5 area gratings for cellar windows at $12.00 each	60.00
Carpenter labor outside of forms for concrete work, 150½ days at $10.00 per day—$1505.00 45 days at 11.00 per day— 495.00 50 days at 6.00 per day— 300.00	2,300.00

(*Continued on page 208*)

Wilson's O.K. PLANT SPRAY

The Standard Insecticide-Harmless-Easy to Use

Spray your flowers with

WILSON'S O. K. PLANT SPRAY

Standard and most popular insecticide for small homes. Used for years by the most exacting florists and estate superintendents. Absolutely harmless, clean and easy to use. Suitable for all outdoor flowers, shrubs, evergreens, vegetables, etc.

Recommended by the officers of the Garden Club of America

FREE

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WILSON'S WEED-KILLER

Don't break your back hoeing . . . just sprinkle with Wilson's Weed Killer. So easy! One application a season is sufficient to kill all weeds in your walks, driveways, gutters, tennis courts, etc.

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A view in one of my Gladiolus Fields, showing the vigorous growth.

Rainbow Collection

One bulb each of 30 different varieties, many rare colors, including lavender, orange, rose, Holland Giant, etc. Would cost nearly $3.00 if separately labeled. Will bloom this first summer, and give you pleasure for years to come. Satisfaction guaranteed or money refunded. Sent postpaid with easy planting directions for only $1.00.

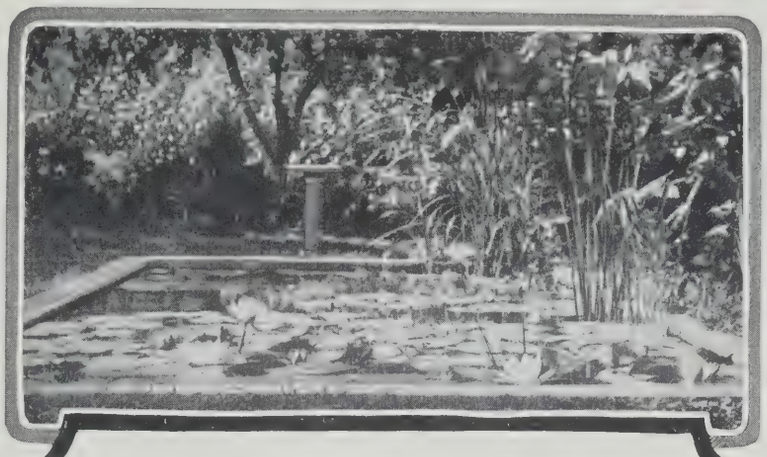
Free Glad Book

Write for my new booklet "THE GLADIOLUS BEAUTIFUL." Has 32 pages, complete color descriptions of 175 fine varieties (many new,) cultural hints, collections and special offers, and contains 30 illustrations. A postal card will bring it by return mail. It's free!

Howard M. Gillet

Gladiolus Specialist

Box252-G,NewLebanon,N.Y.



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are more thrilling than orchids, yet they will grow in the simplest kind of pool—even a sunken tub or barrel.

"Those Everblooming Blues"

Panama-Pacific, royal purple — **August Koch,** lilac-blue
Daubeniana, pale sky blue

3 Fine Lilies of the Rarest Color for $5

Send for our 1926 Waterlily catalogue. It describes and illustrates many colored Waterlilies of exquisite beauty and fragrance. Write today.

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Box M, Independence, Ohio

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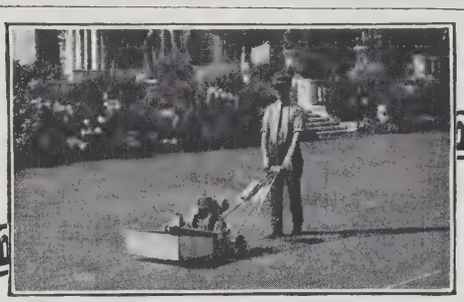

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For the Fine Lawns of Private Estates

Years of proven service acclaim this perfected, roller-driven, power lawn mower unexcelled for ease, speed, economy and quality of cutting. As finely engineered as an automobile—sturdy, but light and perfectly balanced. No traction wheels to mar the turf. Plenty of power and traction for tough grass or steep grades. Special 24-inch, six-blade cutting reel, adjustable from ¼ to 2-inch cutting height. Trims close about trees, flower beds, etc. Removable grass catcher; vacuum muffler. Write for beautifully illustrated catalog.

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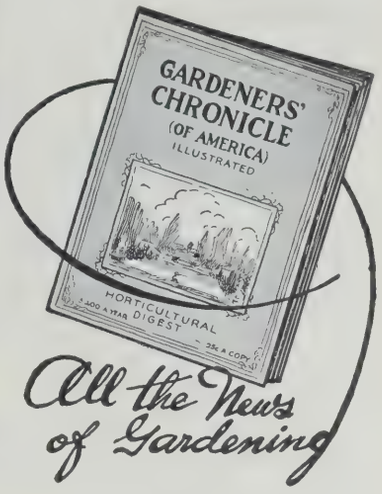

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A FLOWER LOVER who is striving to build a business of her own writes of the Gardeners' Chronicle:

"I find a great deal of interest in its pages, and some things that are of *real money value* to me in my efforts to start the business of growing gladioli and dahlias."

This magazine is the official organ of the National Association of Gardeners. Various branches contribute articles of vital importance to all gardeners. Every month, the editor describes and illustrates some charming estate.

The regular contributors are practical gardeners who love plants and live with them the year round. A Question Department helps you solve your individual problems. Other Departments are: "Our Flower Garden," "The Hardy Fruit Garden," "The Vegetable Garden," "Your Work Under Glass" and "Voices of the Readers."

7 Fine Numbers for $1 If You Order at Once

While the supply lasts, we'll include the April issue (pub. April 15th) *free* with a six months' trial subscription to the Gardeners' Chronicle, making seven numbers for $1. Order today.

Advertisers are invited to write for Rate Card and Sample Copy

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286 5 Fifth Ave. NEW YORK
"The ONLY All-Gardening Magazine"

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From the wide variety of Skinner System Sprinklers it is possible for you to select one that will best fit your place. There are overhead sprinklers, border sprinklers, concealed sprinklers, oscillating sprinklers, rotating sprinklers, sprinklers for rectangular spaces, for borders, and for circular spaces. We make them all, ranging in price from $1 up. Our booklet "Sprinklers for Lawn and Garden" tells all about them. Ask for it.

SKINNER SYSTEM OF IRRIGATION

Give Your Home a Beautiful Setting

The rich velvety green of a perfect lawn—the luxuriant growth of shrubbery—the exquisite coloring of flowers in season—all unite to give your home a beautiful setting, a background that is at once inviting, and that brings refreshing comfort on hot summer days.

But dry weather is the worst enemy of all these. Use a Skinner System of Irrigation, and you can give your lawn, flowers, and garden all the water they need, and in just the form they ought to have it. The fine misty spray is uniformly distributed. So gently does it fall that the tenderest plant cannot be injured. And so deeply does it penetrate the ground that lawn, flowers, and shrubbery are as vigorous, fresh, and colorful in August as they were in June.

After reading out booklet "Rain," you will realize what an important part water plays in the appearance of your lawn and garden. It is profusely illustrated and full of most interesting facts on proper watering—for the finest estates as well as the most modest garden. Send for your copy to-day.

The Skinner Irrigation Company
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The Cottage Gardens

Hardy Plant Specialists

Lansing — Michigan

TRITOMA PFITZERI,
Everblooming Flame Flower

This magnificent Plant succeeds in most any garden soil and is highly satisfactory in every way. From August till frost it shoots out spikes 3 to 4 ft. long with heads of brilliant orange flowers, causing an exquisite effect either when planted singly or in masses. In our latitude Tritoma needs thorough protection over winter, but further south is hardy.

$0.30 each, $3.00 per doz.
$20.00 per 100.

1926 ANNUAL

of Perennials and other Hardy Ornamental Plants. *Free upon request.*

The rugged climate of Michigan embodies Cottage Gardens products with that sturdiness that ensures satisfaction wherever they go.

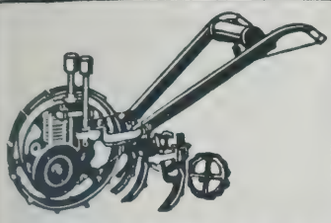
(Continued from page 206)

Sheet metal work—Material and labor, Built-in copper gutter 60 lin. ft. / Hanging 5" copper moulded gutters 90 lin. ft / Copper leaders 2" x 3" 120 lin. ft. / Metal flashings for shingle roof 50 sq. ft. / Metal flashings and counter flashing for chimney 20 sq. ft. / Metal flashings door and window heads 15 sq. ft. / Metal flashings for tight valley 10 sq. ft.	$270.00
Finishing hardware allowance	150.00
Building paper, as per list	55.00
Lathing—putting on wood lath 13,500 at $7.00 per M	94.50
72 yds. wire lath at 15 cts. per yd.	10.80
Plastering 13,500 wood lath at $30.00 M for labor	405.00
Plastering 72 yds. wire lath, one and two coats	36.00
100 bags cement, 80 bags hydrated lime, 4 bbl. plaster of paris	175.00
Painting outside siding, blinds, 3 coats white lead and oil / Staining shingle roof, two coats oil stain / Inside all woodwork, radiators, 3 coats—2 of flat, 1 coat of egg-shell enamel. All oak floors filled, stained and two coats of wax and polished. / Labor and material	750.00
Painting all plastered walls and ceilings—one coat of shellac sizing, 3 coats of oil paint, last coat stippled. / Labor and material	270.00
Tiling second story bath, side walls and floor— Sidewalls 4 x 4 tile, 126 sq. ft. / Floor, 50 sq. ft. / Maid's bathroom, 1st floor, 16½ lin. ft. 6" base / Shower tiled 2 sides, 7' high, 48 sq. ft. / Floor of maid's bathroom, 23 sq. ft.	275.10
Built-in accessories—second floor bath: Towel bars 2 / Paper holder 1 / Soap dish 2 / Tumbler holder 1 / Tooth-brush holder 1	45.00
Extra work as follows—Not shown on plans and specifications	
Kitchen tiled in place of Keen's cement, marked off 128 sq. ft.	65.00
(*Note:* The amount of $65.00 is the difference in the price of kitchen being tiled instead of being marked off in imitation tile and three coats of paint as called for on specifications)	
Filling in 2" concrete over covered porch between beams—200 sq. ft.	9.50
Vestibule—one radiator extra	20.00
1 Pr. vestibule doors extra— (Doors, hardware, painting, labor complete	48.65
200 sq. ft. ¾ x 8" sheathing—300 Lin. ft. 1 x 2	10.00
200 sq. ft. two-ply tar paper	3.00
Carpenter labor	10.00
Metal weather stripping—Front entrance door, 1 Pr. French doors on open terrace	35.00
Miscellaneous	
Electric, Gas, Water Meters	30.00
Carting, scaffolding, cleaning site of all rubbish	25.00
Rough lumber	1,440.00
White oak flooring	283.50
Trim, sash, blinds, doors, stair material— Interior and exterior	1,980.83
Plumber's Contract: Plumbing $1,125.00 / Sewer & meter put in 135.00 / Steam heat 855.00	2,115.00
Electric work— Wiring $175.00 / Lighting fixtures 180.00	355.00
Floor laying and scraping— 1,525 sq. ft. face, 10 cts. per ft.	152.50
4—4" x 7 ft. Lally column caps and bases	13.00
1 Smooth top cabinet gas range	143.00
Compensation Insurance on carpenters and laborers	135.00
Total	$13,378.28
Plus 10 per cent. Builder's Profit	1,337.82
Grand Total	$14,716.10

We have verified the foregoing figures by comparison with the paid bills, vouchers, and receipts, and are satisfied as to their correctness. The full schedule of materials is on file for reference.—The Editors

Planting Data for Bulbs

KIND	PLANT	IN. DEEP	IN. APART	BLOOMS	TYPE AND HARDINESS
Canna	May	3–4	18–36	Aug.	Harvest before heavy frost
Crocus	Oct.–Nov.	3	2– 4	Mar.–Apr.	Hardy; leave in ground
Crocus (Autumn)	Spring	3	3– 4	Sep.–Oct.	" " " "
Crown Imperial	Spring	4–5	5– 6	Aug.–Sept.	Tender; treat like Canna
Daffodils	Oct.–Nov.	5–6	3– 6	April	Hardy; leave in ground
Jonquils	" "	5–6	3– 6	"	" " " "
Poet's Narciss	" "	6	3– 5	"	" " " "
Dahlia	Spring	6	18–36	Aug.–Oct.	Tender; treat like Canna
Eremurus	"	3–4	24–36	Aug.–Sept.	Lift after first frost
Gladiolus	May	2–4	6–12	July–Aug.	Tender; treat like Canna
Hyacinth					
(Dutch)	Oct.–Nov.	4–5	6	Apr.–May	Hardy, or treat like Eremurus
(Roman)	Oct.–Nov.	4–5	6	Apr.–May	" " " " "
(Grape)	Oct.–Nov.	2	2– 3	Apr.–May	" " " " "
(Summer)	Spring	3–5	6–12	July–Aug.	" " " " "
Iris,					
English	Oct.–Nov.	3	4– 5	May	Lift after frost; or leave alone
Spanish	" "	3	4– 5	"	" " " "
Montbretias	May	3–4	3– 5	July–Aug.	Treat like Canna
Snowdrops	Oct.–Nov.	2	3	Mar.–Apr.	Hardy; leave in ground
Squills	" "	3	3– 4	April	" " " "
Tulips	Oct.–Nov.	3–4	5– 6	Apr.–May	Hardy; but lift after frost



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Garden Tractor and Power Lawnmower

A Practical, Proven, Power Cultivator for Gardeners, Suburbanites, Large Estates, Florists, Truckers, Nurserymen, Berry and Fruit Growers—Simple, Compact, Easily Handled and Powerful.

LAWNMOWING FEATURE

Easily equipped in five minutes for Power Lawnmowing work, —31 inch heavy duty, steel mower cuts ¾ acre per hour. A decided time saver on large lawns, golf clubs, cemeteries, city parks, etc.

Write for Catalogue

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1091 33rd Avenue S. E.
Minneapolis, Minn.

Rosa Hugonis

A hardy yellow rose species found several years ago in north China.

Its growth is tall and bushy with finely cut attractive foliage, and long arching sprays of single roses which bloom the entire length of the stalk, completely covering the bush with a cloud of soft yellow.

It is several weeks earlier than other roses, and comes when the Van Houttei spirea is white with bloom. Their growth is similar, and they are good associates in the shrubbery border. Hugonis is splendid also for a specimen shrub.

Our bushy 2–3 ft. plants are $1.50 each, $12.50 per 10.

Catalog upon request.

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PUTNEY, VERMONT
Grown in Vermont It's Hardy"

MONARCHS of the Floral World
DAHLIAS
OF
QUALITY & DISTINCTION

The home of Emma Marie and Eastern Star

One strong tuber of
Bashful Giant Mrs. I. De Ver Warner Nobilis
All Potash Fed Dahlia Tubers

$5.00 Value for $2.50 Postage Prepaid

Would you take a trip through a wonderland of Dahlias and along the way learn many secrets of Dahlia culture? Then —

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Warren W. Maytrott Box A Vineland, N. J.
The Home of Good Dahlias Well Grown

GLADIOLUS
BILL'S BULBS BLOOM BEST
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We Want to Send You Our New

FORTY-PAGE GLADIOLUS CATALOG

BUT!

We need your name and address on a Post Card.

THIRTY BEAUTIFUL ILLUSTRATIONS
and 200 accurate descriptions

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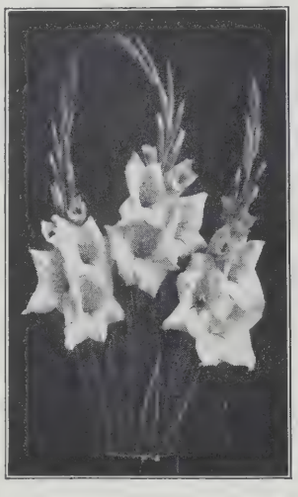
—Prices have been reduced from 35 per cent to 50 per cent below last year's prices.



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DINGEE ROSES
On Own Roots

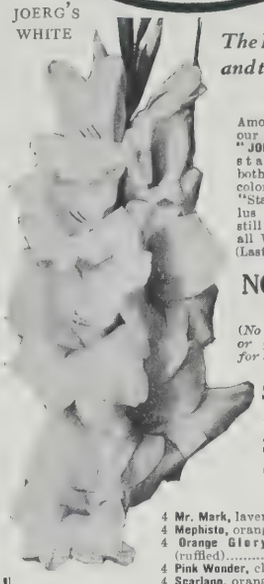
A MAGNIFICENT *new* Dingee rose, the "Silver Columbia," is shown below. A hardy luxuriant bloomer, it grows in or out of doors without coaxing. It is graceful, fragrant, colorful. Rose lovers everywhere plant Dingee rose bushes. They are strong and sturdy—pot grown—on their own roots. Plant them any time, anywhere. Beautiful new varieties and all the old favorites. Safe delivery guaranteed anywhere in U. S.

"Our New Guide to Rose Culture"
for 1926 ***Sent Free on Request***

will help you in planning your garden. Completely illustrated. Describes over 500 varieties of roses, plants, bulbs and seeds and tells how to grow them. It gives you the lifetime study and experience of the *oldest and leading rose growers in America for 76 years.* Contains practical information for the amateur. Limited edition. *70 greenhouses. Established 1850.*

THE DINGEE & CONARD COMPANY
Box 437 **West Grove, Pa.**

"Best on Earth" Gladioli



The Rarest New and the Choicest of the Old

Among the former, our giant White "JOERG'S WHITE" stands supreme both for size and color. It was the "Star" 1925 Gladiolus novelty and is still the greatest of all White Gladioli. (Last year $5.00)

NOW $3.50
Per Bulb
(No smaller sizes or planting stock for sale.)

Special Offer of 8 Splendid STANDARD GLADIOLI

	List Value
4 **Mr. Mark,** lavender-blue	$ .50
4 **Mephisto,** orange-scarlet	.83
4 **Orange Glory,** orange (ruffled)	1.00
4 **Pink Wonder,** clear pink	.83
4 **Scarlano,** orange-red	.83
4 **Polar Star,** snow-white	.83
4 **La Couronne,** cream, blotched maroon	.83
4 **Golden Gate,** golden orange	.83
	Value $6.48

The above collection post paid anywhere in the U. S. for . . . $5.00

Our 1926 illustrated catalog of "Best on Earth" Gladioli, Dahlias, Peonies, Pink Callas, etc. mailed free anywhere.

GEO. J. JOERG, Inc.
(40 years growing Gladioli)
NEW HYDE PARK *(Box G)* **L. I., N. Y.**

USE one part Hyper-Humus to three parts good garden soil. Your plants will make quicker and sturdier growth.

For That New Lawn

Hyper-Humus is better than top soil for making the new lawn or repairing the old one. Spread it one inch deep on the new lawn, using about 30 lbs. to the square yard.

A light topdressing is refreshing to any lawn, and should be applied once a year.

Prices f. o. b. Plant

1-100 lb. Bag.....$ 1.50
4-100 lb. Bags.... 5.00
1 Ton in Bags.... 20.00

Special prices on carload lots.

"Soil Improvement"

Write for FREE Booklet, "Soil Improvement." It contains concise directions for using Hyper-Humus.

Ask about our special Rhododendron Mixture.

HYPER-HUMUS COMPANY
Dept. 18 Newton, New Jersey

Hyper-Humus
TRADE MARK REGISTERED
"Puts The Top In Top-Soil"

Hearthstone Editor's Chat

This is a department for each one who has a house to build or decorate, a new interior to finish, or an old familiar room to make more attractive. It is planned for just one purpose: to bring to each home maker all the aid and advice so freely offered by the men and women of the business world to-day. It is a meeting-place where the manufacturer, the decorators, the craftsmen may place their helpful booklets, their free bureaus of service in the hands of those who value such help. Additional booklets will be listed each month.

This department is for each of our readers. Each Booklet listed may be had upon request. Order by number only and as many as you wish.

Address: Hearthstone Editor, Garden & Home Builder, Garden City, N. Y.

Equipping the Dining Table

IN ANY home large or small, the dining room with its table is at the root of much of its hospitality. Here is the test of the hostess, the proof of her ability to put her guests at ease, which she can only do if at ease herself. To effect this poise she must have the proper table furnishings. This does not mean costly equipment, but it does mean thought and right selection—good linen, fine or distinctive china and glassware, and the very best and most complete set of silver or silver plate that her purse can afford.

To-day, there are but few rigid "what's what" for the dining table. It can with a perfect sense of being right express anything that the hostess desires. In fitting out her table, the home maker must first study her room, its possibilities and limitations, how many will it seat with comfort, allowing 25 inches space for service; she must consider her social plans and hopes.

In furnishing the table, the subject of linen comes first. In this a wide choice is offered. For the very formal dinner a heavy white damask cloth (never round no matter what the shape of the table) is usually chosen. If, however, one is possessed of a long runner of rare lace and unusual beauty and if the wood of the table be rich and highly polished, the cloth may be dispensed with and the runner used even at the strictly formal affair if the silver, china, and glassware be of the finest and the service of the very best.

For the luncheon, tea, or breakfast, there is such wide latitude as to material and color that the hostess can not go amiss. One of the loveliest sets seen recently was of lace, hand-woven in Scotland, this set consisting of 6 plate doilies and yard-square lunch cloth. The Italian sets are equally lovely in shades of ecru with fine embroidery and cut-work. These may be had with either long runners or with square cloth, with napkins to match in good quality and design and at not prohibitive prices.

For the informal luncheon or tea, there are sets in all tones of orchid, green, orange, or rose to bring just the right touch of color to a dark room or day. Many women are making their own especially attractive luncheon sets of a two-yard wide fabric called theatrical gauze. This is in a deep shade of ecru and of an unusual texture. A square cloth of this completely covering the table and hanging well over the edges, with wide hem caught by long stitches in color and with weighted corners adds a touch of loveliness to even the simplest table. Such a cloth hemmed with orange, with a wide, low bronze bowl holding Calendulas for a center piece makes an unforgettable table for the informal luncheon.

The latitude given in the selection of linens applies equally to china. Whereas for a formal dinner our grandmothers used a "set" of china throughout, to-day's hostess carries her color scheme out through the dishes as well as with her other decorations. She not only uses different kinds of dishes for various courses but different colors as well. For the service plates, there are some with an all-over encrustation of gold, gorgeous to behold; others are of black with gold and silver tracings and edges and still others in green and silver. To permit the beauty of such plates to have full share in the decorative plan, a first course of fruit may be served in glasses of the same coloring as the plates themselves, while even soup plates of fine etched glass are to be had. Goblets as delicately shaped as a lily, of clear etched glass, will have the stem of black, amber, or pale green to bring just the wanted touch of gaiety; still other glasses are oddly footed with flaring bowls. Some tall goblets of etched glass have pale green rims while still others have silver over some color. To match these glasses are frostlike bowls with silver rims to be used as center piece for fruit or flowers.

For the salad course, there are plates of odd shape and color, the old factories of Copeland and Wedgwood producing delicately fluted, hexagonal plates in creamy embossed Queensware that seems to hold so much of story and romance. Glass plates for salad seem especially to suggest a crisp coolness with their edges in silver and pale green.

For the luncheon or breakfast table, Italian and Spanish pottery has been brought across the seas. This is of a thick majolica-like texture with colors of a gay brilliance or in the dull tones of greens, blues and yellows that seem mellowed by time. If desired, a whole tea set in plain, undecorated blue or yellow or green may be had, still others in black with white plum blossoms, while Spain sends us odd shapes in plates and cups and saucers, in luster with some large platters that are almost bowls and that look like pirate ships so high are their sides. Bowls for flowers and fruit may be had in both these wares as well as odd ornaments for the table in the shape of gay birds. This craze for table ornaments has extended to silver, and pheasants, grouse and peacocks with spreading tails now walk with silver steps adown the modern board. Even the flower holders have assumed new shapes, one in Spanish china simulating a tall hollow stump with an owl perched on it.

Candlesticks (mostly used without shades) match the new china and pottery as well as the silver, while lamps are assuming new and unheard of shapes. One seen in the shops is a copper ship in full sail with sockets for large candles at bow and stern—a fitting light to swing any informal little dinner party away with a merry start.

Coming to the hostess' real treasure-chest—her silver—the crown of all table equipment. Modern silver and silver-plate has kept pace with the times, echoing the demand for beauty and efficiency which means in the case of silver, good design and absence of

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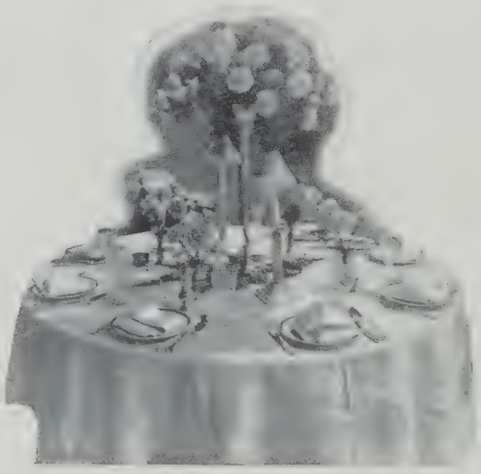

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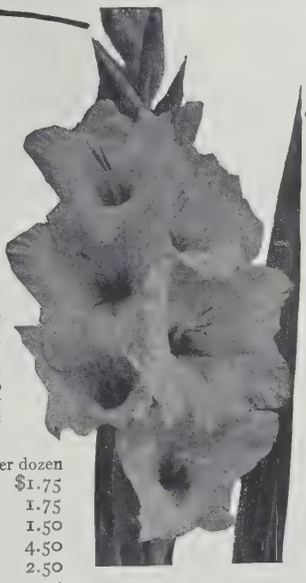

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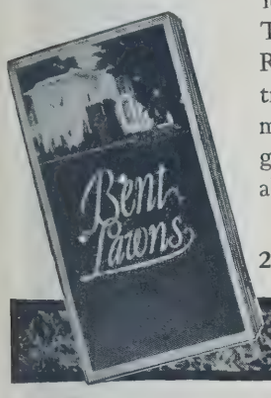

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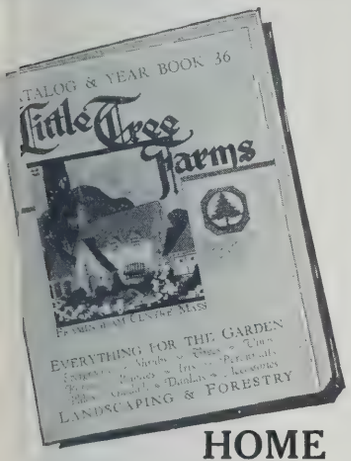

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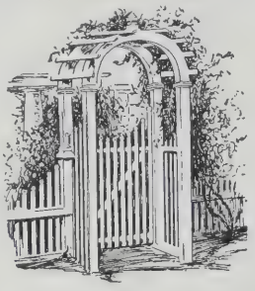

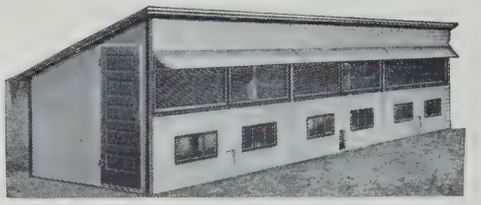

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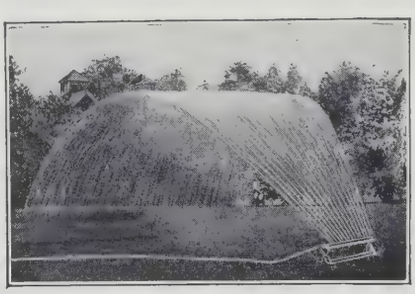

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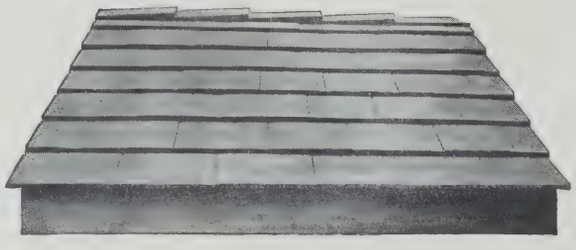

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Karnaks — Aristocrat of American Wiltons. Deep piled chenilles. Axminsters of quality. Tapestries and velvets.

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Before you choose a rug or carpet, gain the freely-given counsel of the distinguished Interior Decorators, W. & J. Sloane. They will advise you of the proper floor covering for your own individual rooms. Write now for full particulars about our free interior decorating service. Address Mohawk Department, W. & J. Sloane, 575 Fifth Avenue, New York, N. Y.

MOHAWK RUGS

MOHAWK CARPET MILLS, INC. *Amsterdam, N. Y.*

To smoke Lucky Strike
for a change is to smoke
them forever from choice

LUCKY STRIKE

"IT'S TOASTED"

THE COUNTRY LIFE PRESS, GARDEN CITY, NEW YORK

205 New Ag.

GARDEN & HOME BUILDER

MAY 1926
35 CENTS

THE
NE-STORY
HOUSE

SUMMER
FLOWERING
BULBS

Special Issue No. 3

Plans for a 5-Room Bungalow

Vol. LIII. No. 3.

Boston *Doubleday, Page & Company, Garden City, N. Y.* *Chicago*

An Import Order NOW=Big Savings LATER!

Why you must *Act at Once* to gain this alluring reward for Promptness

Our Famous Border Collection

of magnificent Darwin and Cottage Tulips (as pictured above, in order from right to left.)

	Per 100	Per 1000
Clara Butt—Exquisite Salmon-pink Darwin	$4.00	$36.00
Picotee—White Cottage with lovely reflexed petals edged with pink	4.00	38.00
Dream—Charming, clear lavender Darwin	5.00	48.00
Bronze Queen—Art tulip of buff tinged with golden bronze . .	6.00	56.00
Pride of Haarlem—Darwin, American Beauty color	4.50	40.00
Zulu—Enormous size Darwin of deep velvety purple	5.00	48.00
Golden Beauty—Glorious golden yellow Cottage	4.75	43.00

25 Bulbs at the 100 rate; 250 Bulbs at the 1000 rate.

Very Special

100 Bulbs each of 7 varieties above (700 in all) . . . $31.00 or less than 4½c each.

1000 Bulbs each of 7 varieties above (7000 in all) . . $275.00 or less than 4c each

Caution—*No order can be accepted at these prices later than July 1st*

These are the reasons:—

First—Knowing our tremendous selling power the great bulb growers of Holland have just come to us with stocks all complete, ready and eager to make price concessions for immediate orders *far below* those that will obtain next fall.

Second—By adding your order to our own large imports we can get for you not only the advantage of bedrock prices for highest quality but we can have your orders packed especially for you in Holland, thus also saving you extra packing costs, reducing the freight and import charges to a minimum and at the same time guarantee to you the pick of the new crop—*the biggest and finest bulbs grown in Holland!*

EXTRAORDINARY OFFER

100 DARWIN TULIPS for only $3.00

Choicest, first size bulbs, sure to bloom. Schling's Special Mixture made up especially for us from ten of the finest named varieties—not at all the ordinary field-grown mixture usually sold.

A $6.00 Value for only $3.00 or if you prefer 50 Bulbs for $2.00

VERY IMPORTANT!

We are glad to announce that we can still import for you this season our much desired "Heralds of Spring" collection offered below—but they may be barred hereafter by the government without further notice. *A word to the wise is sufficient!*

Daffodils and Narcissi are barred from import but we can still offer *a limited quantity of Virginia grown bulbs* of top grade, fully equal to the Holland grown varieties. *See below.*

Here are the Bulbs and Here are the Prices!

Eight splendid collections, each a wonderful value—*if you order now!*

	Per
100 ***Darwin Tulips*** in 10 named varieties. Immense flowers on stems 2½ feet tall in May and June	$4
100 ***Cottage Tulips*** in 10 named varieties. The tulips of grandmother's garden improved. Bloom in May and June . .	
100 ***Breeder or Art Tulips*** in 10 named varieties. In form like Darwins. Wonderful shades of Bronze, Buff, Orange, etc. May and June	
100 ***Single Early Tulips*** in 10 named varieties. Bloom in April and early May .	
100 ***Double Early Tulips*** in 10 named varieties. Bloom in April and early May	
100 ***Bedding Hyacinths*** in 4 colors . . .	1
100 ***Named Hyacinths,*** 2nd size, 4 varieties	2
100 ***Crocus*** in 5 named varieties. First size bulbs	

Caution—*These prices good only till July 1st.*

The Heralds of Spring

200 of these Lovely Spring Beauties—25 each of the following 8 named varieties for only $6.00

Snowdrops—Glory of the Snow (blue)—Heavenly Blue Grape Hyacinths—Blue Squills (*scilla siberica*)—Blue Bells (*scilla campanulata*)—White Blue Bells—Wood Hyacinths (*scilla nutans*)—Winter Aconites.

VIRGINIA GROWN

100 Bulbs $7.50

DAFFODILS and NARCISSI *FOR NATURLIZIN and LAWN PLANTI*

Our *Old Dominion Collection* in choicest mixture of airy and medium Trumpets, short cupped and lovely Poet's varieties. All first quality bulbs grown in Virginia where their culture has flourished since Colonial days. These bulbs, being native, are fully acclimatized and none better can be grown anywhere. The supply will not equal the demand. *Order at once!*

100 Bull $70.

You may order these bulbs now and pay for them when they arrive about September 30th, or if you prefer, you may deduct a

Cash Discount of 5%

if you send cash with order

Madison Ave. at 58th St. **Schling's Bulbs** New York City

MAX SCHLING SEEDSMEN, Inc.

Gentlemen:—Please enter my order for bulbs checked on enclosed list for which I agree to pay at these special import prices when order arrives about September 30, 1926.

☐ I am deducting 5% cash discount and enclose full payments in advance.

☐ Please send me your special "Import List" of Bulbs.

Name..... *Address*.....

Other special offers in our "Import List" of Bulb Collections

Shall we send you a copy?

Wherever the Mediterranean influence enters nothing can take the place of colored stucco

YOUR HOME IN COLORED STUCCO

Now, at low cost, you can have this beauty—with complete assurance of strength and durability

To almost every type of home colored stucco brings an added charm.

For the popular Mediterranean style—Spanish or Italian—and the English or French cottage no other material is so beautifully fitting.

You will be surprised to find how economically you can secure the charm of colored stucco *plus* great strength and permanency of construction—with Bishopric.

Bishopric is a *unit-wall* construction. It consists of (1) a patented reinforcing base, (2) a stucco, and (3) an attractive color finish. All three materials are designed and made to be used together. They combine to form a *unit-wall*—not a wall made from miscellaneous materials mixed together.

The result is a coherence and strength of construction obtainable only with Bishopric. The diagram at the right illustrates why this is so.

Bishopric is also economical. The base may be applied directly to studdings, producing a stronger, warmer wall than sheathing, metal base, and stucco—and the cost is less.

In addition, Bishopric provides effective insulation, keeping your home warmer in winter and cooler in summer. It reduces your fuel bills and increases living comfort.

Bishopric Stucco is also applied with excellent results over hollow tile, concrete blocks, and similar materials.

THIS IS THE UNIT-WALL

Its foundation is Bishopric Base, nailed fast to the studdings. It consists of finest quality fibre-board (with felt for insulation), heavily coated with asphalt mastic. Into this, bone dry wood bars are embedded under great pressure. The result is a vermin-proof, fire-resisting base, which insulates the house securely against heat, cold and sound.

Over this base is applied Bishopric Stucco, locking into the grooves provided by the Bishopric Base and forming a complete wall *unit*. Note how stucco and base lock together.

Bishopric Stucco is mixed in exact, scientifically determined proportions and is shipped in air-tight metal drums.

Finally, Bishopric Sunfast Finish is applied, giving your home the charm of lovely color. There are many attractive tints for you to choose from.

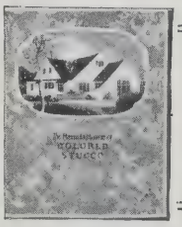
Send for FREE BOOK

You cannot fully realize the wonderful possibilities of stucco as a building material for your home until you have read our beautiful de luxe booklet, "The Renaissance of Colored Stucco." Before you make further plans send for this valuable book, fully illustrated in color. It is free—simply send the coupon. Clip it now.

The BISHOPRIC MANUFACTURING CO
ESTE AVE. CINCINNATI, OHIO.
The BISHOPRIC MFG. CO. OF CALIFORNIA
LOS ANGELES

THE BISHOPRIC MFG. CO.
305 Este Avenue, Cincinnati, Ohio

Please send me without charge your new booklet, "The Renaissance of Colored Stucco."



WRITE NAME AND ADDRESS BELOW

_____

_____

_____

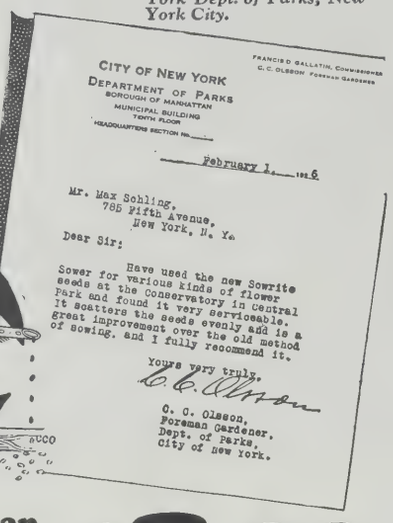
B I S H O P R I C

SOWRITE

Mr. Olsson, in one of the New York City Greenhouses sowing seeds with SOWRITE. Read his letter.

"It scatters seeds evenly," says C. C. OLSSON

Foreman Gardener of New York Dept. of Parks, New York City.



CITY OF NEW YORK
DEPARTMENT OF PARKS
BOROUGH OF MANHATTAN
MUNICIPAL BUILDING
TENTH FLOOR

FRANCIS D. GALLATIN, COMMISSIONER
C. C. OLSSON, Foreman Gardener

February 1, 1926

Mr. Max Schling,
785 Fifth Avenue,
New York, N. Y.

Dear Sir:

Have used the new Sowrite Sower for various kinds of flower seeds at the Conservatory in Central Park and found it very serviceable. It scatters the seeds evenly and is a great improvement over the old method of sowing. and I fully recommend it.

Yours very truly,
C. C. Olsson

C. C. Olsson,
Foreman Gardener,
Dept. of Parks,
City of New York.

With SOWRITE you can plant seeds like an expert gardener!

WHAT more striking proof of SOWRITE'S practicability than the sincere recommendation of a master gardener—Mr. Olsson of the N.Y. Dept. of Parks! Yet so simple is SOWRITE that even the most amateur gardener can get the results of an expert!

You merely adjust SOWRITE'S metal slide to size of seed, fill up bowl and tap lightly with your finger. *That's all there is to it. Every seed scatters at correctly spaced intervals!*

With SOWRITE, Seedlings spring up *separately* and *unchoked!* "Thinning out" becomes practically unnecessary; fewer plants are lost; more produced per package of seeds. Pays for itself many times over in stronger, healthier flowers, plants and vegetables.

This Spring start off right—let SOWRITE do *all* your planting! Fill out and mail the coupon at once.

$1.00 Postpaid

SOWRITE Model "A"

For sowing all fine seeds. Made of tough fibreloid. Metal slide regulates flow. *Use the coupon.* **$1.00 Postp'd**

SOWRITE Model "B"

For sowing all *large* seeds up to sweet pea size. Metal construction, with adjustable slide. **$1.50 Postp'd**

Use the coupon.

For Beauty! For Protection!

"BUILT-EASY" BIRD HOUSES

Attract lovely songbirds this Spring. They'll protect your plants—destroy millions of bugs, and boring pests.

Three Styles

Model "A" For Wrens

$1.65 each *Postpaid*

Model "C" For Wrens

Model "B" — For Bluebirds, Martins and Woodpeckers

All Three $4.50 *postpaid*

Wood construction, quaint, rustic, stained. Packed flat in carton. Quickly erected. Order via Coupon.

"SEERITE"

A Permanent Garden Label That *Can't* Wash Off!

8 for $1.00 Postpaid

Your garden label is enclosed in "Seerite's" sturdy, clear glass cylinder, and tightly sealed with the cork-tipped wooden peg. In spite of watering can or rainstorms it *stays* readable always! A box of 8 "Seerites" for $1.00 postpaid. Use the coupon!

Clip and mail

MAX SCHLING, Inc., 785 Fifth Avenue, New York City

I enclose check—money order—cash—for
"SOWRITE" Seed Sower—Model "A" ($1.00)_____ Model "B" ($1.50)_____
"SEERITE" Marker (8 for $1.00—100 for $11.00)_____
BUILT-EASY BIRD HOUSES—Model "A"_____ Model "B"_____ Model "C"_____ ($1.65 each—three for $4.50)
Above prices include all mailing costs

Name_____

Street_____ City_____ State_____
(G. H.) (Please print plainly)

Woodland Gems

Those Contented Ferns

The very presence of ferns begets a sense of quiet, peace. They nestle close to mother earth and those that grow tall, bend gracefully toward the spot that gave them birth. Grow *more* ferns! I grow over 50 kinds, for practically every situation.

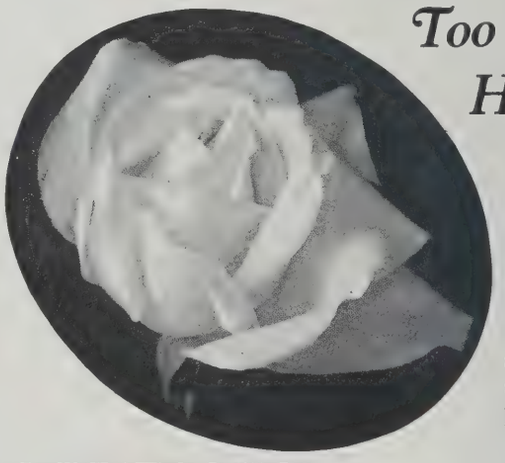
Two favorite combinations

I recommend *Collection No. 2* for *dry*, shady spots. It holds 4 different sorts, 35 plants in all, dwarf, medium and tall for **$5.00.**

Collection No. 3 will thrive in *moist* shady places. The nine varieties it holds follow each other in season of display. 45 plants in all for **$6.00.**

Other collections, for almost every conceivable soil and situation are listed on page 7 of my descriptive catalog for which please write. It offers, perhaps, the most comprehensive collection of native, hardy plants and shrubs. Gladly mailed free and please mention Garden & Home Builder.

EDWARD GILLETT Fern and Flower Farm 3 Main St. Southwick, Mass.



Too Late to Have Them This June

ASSUREDLY not! You may gather loads and loads of Roses this June and practically all summer! We now provide potted (though field-grown) plants that are in leaf and, later in May, will have some buds. This is just one phase of Lovett Service designed to help late comers to garden rewards this very season.

Pot-grown Strawberry Plants as Well

Strawberry plants with a firmly established root-system that will take hold at once, with the plants never wilting a leaf. The Everbearing varieties will bear fair crops this fall. And potgrown strawberry plants are insured against all the childhood mishaps to which ordinary layer plants are subject.

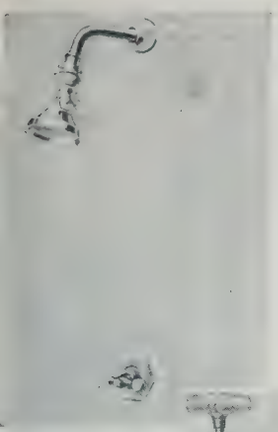
48th Annual Catalogue FREE

For nearly half a century this nursery has served planters of discrimination with Berry plants and Fruits of all kinds as well as Roses, Hardy Plants, Shrubs, Trees—in short all plant material desirable for the home grounds. Our Catalogue No. 117 tells the whole story. Please ask for it and mention *Garden & Home Builder.*

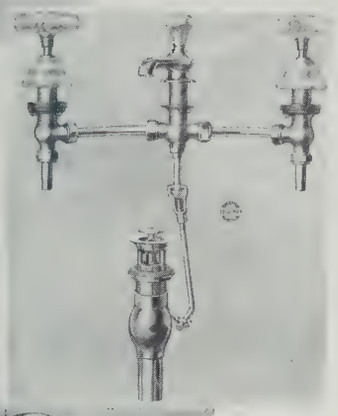
LOVETT'S NURSERIES Box 125 **Little Silver, New Jersey**

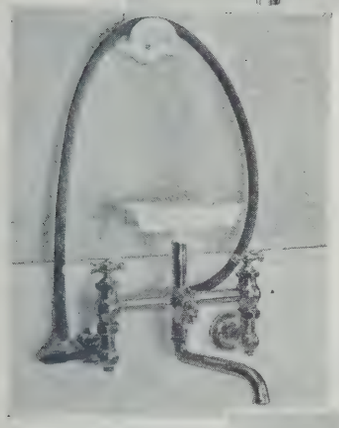
57 Years in the Plumbing Industry

—*half of this time specializing in a complete line of one-outlet fixtures*



H952½ Shower. Very popular for over a built-in tub or stall installation.





H 2276 Lavatory Fixture. Used largely in residences, hotels and clubs.

H 1894 Sink Fixture with one-nozzle, hose and spray head. Makes kitchen work much easier and faster.

H 2460 Deshler Bath Fixture. It was our development of this fixture that helped us so much in popularizing the shower.

THE shower, lavatory, bath and sink fixtures are examples of plumbing development in which the SPEAKMAN Company by its specialization has materially played a big part. Just how great has been this development of one-nozzle or outlet fixtures is shown by their wide use.

In practically every home, club, hotel and institution being built today, one-nozzle fixtures are being used throughout.

In a booklet which we will send you are shown various types of SPEAKMAN one-outlet fixtures. Use the coupon.

Any SPEAKMAN shower or fixture can be easily obtained. They are sold by nearly 20,000 plumbers throughout the country and distributed by practically every large plumbing jobber.

SPEAKMAN COMPANY
WILMINGTON, DELAWARE

SPEAKMAN SHOWERS *and* FIXTURES

SPEAKMAN COMPANY, WILMINGTON, DELAWARE

Please send me literature on Speakman Showers and One-Nozzle Fixtures.

Name..... *Address* .....

FREE

For the Finest—*Order Early*

ELLIOTT

Giant Tulips

Joy will burst out from your garden and command the mood of every passer-by if you plant a bed of Elliott's wonderful tulips. No plant is more expressive of the gladness of the year.

For supreme effect, get the truly regal kinds that Elliott offers—big bulbs, the very choicest produced for 1926, sure to live, sure to make the most vigorous growth, true to type, gloriously beautiful. To secure such, you must order early. The name of Elliott's, bulb specialists for forty years, has always been a guarantee of the best. Full planting instructions with every shipment.

SPECIAL OFFER *till July 1st*

To be planted in the Fall. Bloom in May—Stems over two feet tall. Flowers often 3½ inches in diameter. Ten varieties, superb in size, form and color.

Baronne de la Tonnaye. Vivid pink.
Bronze Queen. Buff and golden bronze.
Clara Butt. Delicate salmon-pink.
Dream. Lovely delicate lilac.
Euterpe. Mauve-lavender. Extra fine.
Farncombe Sanders. Fiery Scarlet.
Pride of Haarlem. Deep old rose.
Faust. Velvety maroon purple.
Glow. Deep glowing vermilion.
Madame Krelage. Pink, light bordered.

Collection A, 100 Bulbs, 10 each kind, $4.95

Collection B, 250 Bulbs, 25 each kind, $12.00

Collection C, 1000 Bulbs, 100 each kind, $45.75

Order Now. Pay in the Fall when bulbs arrive or take 5% discount for cash with order. Safe arrival guaranteed. Late orders are liable to disappointment.

FREE! Elliott's Book of Bulbs for 1926. Very helpful. Hundreds of practical suggestions for growing Tulips, Hyacinths, Daffodils, Lilies, and other bulbs, indoors or out. Profuse illustrations—many in natural colors. Send for it to-day. Place bulb orders early.

ELLIOTT NURSERY COMPANY

(Established 1889)

603 Magee Building, Pittsburgh, Pa.

Rare Plants from Hicks

SOMEWHERE a master and mistress of a new home are longing for unusual plants for the garden that is to be.

Somewhere a skilled gardener is searching for the new plants that have come into trade during the past few years.

Somewhere a connoisseur is inquiring among his friends about rare plants to add to his collection.

These—and many others—can have their planting problems solved by Hicks Nurseries.

What Can Be Found at Hicks

Spreading Cotoneaster (C. divaricata) feeds the birds all winter with little apple-like fruits; extra good plants $2.50 each.

Vernal Witchhazel (Hamamelis vernalis) blooms in February, with small red and yellow flowers. Plant 2 to 3 feet high, $1.00.

Cornelian Cherry (Cornus mas) a glow of yellow in early April. Plants 2 to 3 feet high, 75 cents each.

Asiatic Sweetleaf (Symplocus paniculata) known also as Turquoise Berry, has robin's-egg blueberries in autumn. A rare small tree from 12 to 15 feet high. Good plants, 2 to 3 feet high, $2.00 each.

Half a score of new Barberries are available; a collection of Cotoneasters; a new Yew (Taxus media Hicksi) which is perfectly hardy in New England; Myers Juniper with silver and crimson foliage; Scotch Heather in variety.

We shall be glad to send you further information about Hicks rare plants, evergreens, shade trees and flowering shrubs.

Hicks Nurseries

Box M *Westbury, L. I., New York*

Wilson's O.K. PLANT SPRAY

WHY BUGS LEAVE HOME

SURE DEATH To All INSECTS and BUGS

Recognized as the best insecticide for your flowers, shrubs, evergreens, vegetables, etc. For years it has been used by the most exacting florists and estate superintendents. Absolutely harmless and clean, both for indoor plants as well as outdoor gardens.

Recommended by the officers of the Garden Club of America

Trade Mark

FREE: **Write for a copy of Wilson's Spray Calendar (gives you correct month in which to spray your different plants.)**

WILSON'S WEED-KILLER

Don't hoe . . . just sprinkle with Wilson's Weed Killer. One application a season is sufficient to kill all the weeds in your walks, gutters, etc.

In writing, mention your dealer

Andrew Wilson INC.

SPRINGFIELD *Dept. A* **NEW JERSEY**

Coldwell Lawn Mowers Are Dependable!

A Type For Every Lawn — Hand, Horse, Gasoline, Electric

SINCE 1867, Coldwell Lawn Mowers have been built of the best materials and finest workmanship. Today, as a result of this, they are enjoying an enviable reputation for their dependability. Whether you purchase a Coldwell Mower to be pushed by hand, drawn by horse or tractor, or operated by gasoline or electric power, you will find it steadily doing its work and rarely ever out of order. To sell *Dependable* Mowers is the principle upon which all Coldwell business has been built.

In the Coldwell Complete Line you will find hand mowers for small lawns, borders and general trimming purposes; horse mowers for large estates where horses are used; gasoline mowers for small and large country places and the electric mower for suburban and town homes—a complete, dependable line for every lawn requirement.

Above is pictured the Coldwell Model "L" Motor Lawn Mower and Roller which mows and rolls simultaneously a twenty-five inch swath. With the new gang units, which can be attached in a minute, the Model "L" will cut a 60 inch swath, 10 acres a day, on one gallon of gasoline. Extremely flexible—it cuts close up to and around trees and shrubbery and along walks and borders. Climbs extreme grades with ease and readily follows the contour of the ground.

Write in, giving approximate size of your lawn, or better still, send a photograph of your estate, showing lawn area, and we will be pleased to have our nearest dealer demonstrate the proper Coldwell mower for your lawn.

SINCE 1867

COLDWELL

Dependable Lawn Mowers

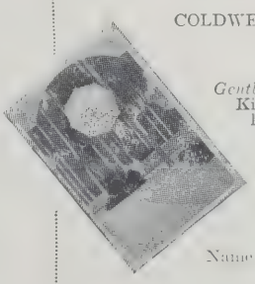
Hand · Horse · Gasoline · Electric

COLDWELL LAWN MOWER COMPANY, NEWBURGH, N. Y., U. S. A.

Fill in the coupon below and we will send you detailed booklet.

New! The Coldwell Electric Lawn Mower

"As easy to operate as a vacuum cleaner." Self propelled—mows as it goes, operator merely steers it. Coldwell Mower—General Electric Motor—Timken Tapered Roller Bearings. Cuts a 21 inch swath. Plugs in on any garage or house light socket—direct or alternating current. Uses same amount of current as an electric iron. Carries 150 ft. of cable (300 ft. cutting radius) on an automatic reel which takes up and pays out automatically. Wire is always taut. Send coupon today for the latest electrical development which relieves the man of the drudgery of mowing the lawn.



COLDWELL LAWN MOWER CO.
NEWBURGH, N. Y.

Gentlemen:—
Kindly send me your free booklet checked below on

GASOLINE MOWERS ☐
ELECTRIC MOWER ☐

Yours very truly,

Name .....

Address .....

Van Bourgondien's DAFFODILS

AMERICAN GROWN BULBS

For seven years we have been growing Daffodils in our Babylon, Long Island, Nurseries. The bulbs we have produced have been fully equal to the very finest Daffodil bulbs produced in Holland.

The Largest Commercial Collection in America With Over 150 Distinct Named Varieties

While it is perfectly true that the supply of good Daffodil Bulbs in 1926 will be limited, we have large stocks of Daffodils, clean, healthy bulbs awaiting your orders and we expect to meet the demands of garden lovers who want to secure Daffodils this year.

Daffodil Specialists

We have decided to devote our time and attention to Daffodil bulbs exclusively and to discontinue to handle Tulips, Hyacinths, Crocuses and other bulbs.

Special Collection American Grown Bulbs

Here are 12 varieties, every one a sturdy producer, which we have been growing for seven years in quantity in our Babylon Nurseries. They are the most popular Daffodils in commerce. We believe that this collection of Daffodils planted in your garden this year, will convince you of the quality of our American Grown Daffodils. In view of the Daffodil situation an early order is advisable.

	Per Doz.		Per Doz.
Albatross (Barrii)	$1.75	*Madame DeGraaff (White Trumpet)*	$2.00
Conspicuus (Barrii)	1.75	*Mrs. Langtry (Leedsii)*	1.35
Emperor (Yellow Trumpet)	2.00	*Pheasants Eye (Poeticus)*	1.35
Empress (Bicolor)	2.00	*Sir Watkin (Incomparabilis)*	2.00
Glory (Poeticus)	1.50	*Victoria (Bicolor)*	2.00
Lucifer (Incomparabilis)	1.35	*White Lady (Leedsii)*	1.75

5 Bulbs each (60 bulbs) ..... $ 8.00
10 Bulbs each (120 bulbs) 15.00
25 Bulbs each (300 bulbs) 35.00

Our Daffodil Catalogue

Will tell you about our acres of Daffodils here at Babylon with full descriptions and prices. Ask for copy. Or better still, visit our Daffodil fields in late April and early May when the Daffodils will be in bloom.

Van Bourgondien Bros.

Daffodil Specialists
Box B, Babylon Long Island, N. Y.

Screen Your Porch With "Pearl"

BECAUSE of Rust, ordinary Painted or Galvanized Screening fails to give satisfactory service. The wire becomes pitted and corroded particularly at the points of intersection, and is soon destroyed.

Specify PEARL WIRE CLOTH for porch screening. Due to its metallic coating, PEARL Gray Color and even mesh, PEARL is the most beautiful wire cloth. It offers little or no obstruction to the vision and you enjoy the advantages of outdoor living with indoor comforts.

PEARL is also, because of this special process coating, the most durable—therefore the most economical.

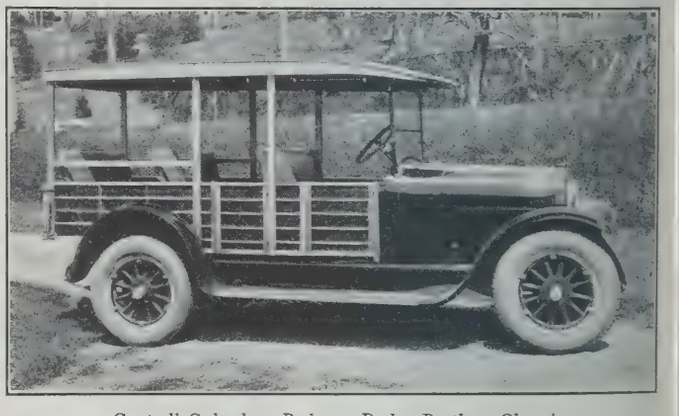
Insist upon the Genuine. It has two copper wires in the selvage and our red tag on every roll. Made in two weights—regular and extra heavy.

Address Department "G"

The Gilbert & Bennett Mfg. Co.

New York Georgetown, Conn. Chicago Kansas City

Write our nearest office for Samples and Booklets
The best hardware dealer in your city sells "Pearl"



Cantrell Suburban Body on Dodge Brothers Chassis

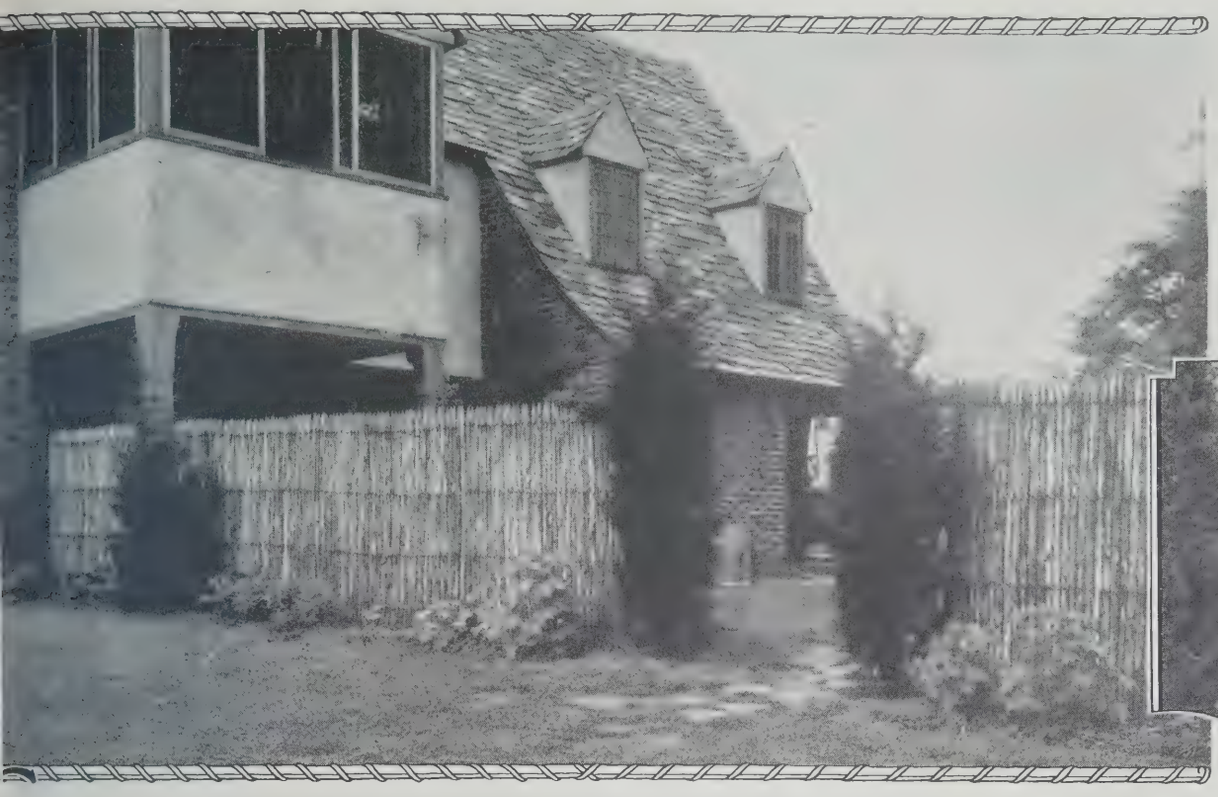
THE outstanding merit of the Cantrell Suburban Body is due partly to the fact that only the best of materials and workmanship enter into its construction, and partly to its exclusive features, which are protected by patents.

Mounted on a light chassis, the Cantrell makes a smart-appearing, durable car for the owner of the country estate or suburban home.

We shall be pleased to send you upon request our folder "H" giving details and specifications

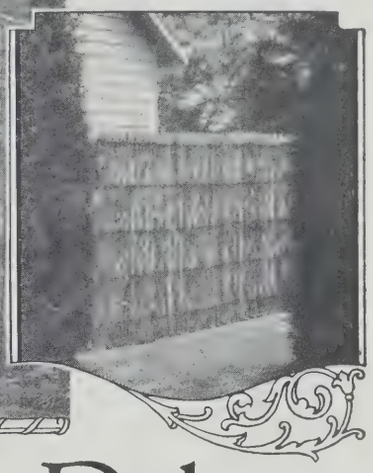
J·T·CANTRELL & COMPANY

Makers of Suburban Bodies
HUNTINGTON, N.Y.



AT LEFT: *How one suburban New York home-owner is using Dubois to fence off the laundry yard. Note how well it blends with house, shrubs, and lawn.*

BELOW: *Keeping the garage next door from encroaching on your garden.*



Screening unsightly views with Dubois

. . . this quaint, rustic fence, used on country estates, is admirably suited for suburban and city yard needs

HAVE you a laundry yard that you'd like to shut from view—a strip of service yard that should be concealed—or a driveway that needs screening?

Formerly there was no suitable fencing for such matters. But today, with Dubois Woven Wood Fence, you can screen unsightly views and add a touch of beauty to your yard, quickly, easily, and at moderate cost.

Also for Country Estates

THIS quaint, rustic fence, made by hand in France, of straight, live young chestnut saplings so closely woven together that outsiders cannot see through, is also admirably suited for country estates. It is just the thing for those who do not want to be stared at by every passing motorist. It protects also from dust and trespassers.

Dubois Woven Wood Fence is of a gray-brown neutral tone that blends with any type of building. It lends something of an Old-World charm to every setting. Vines cling to it easily, and it forms an ideal background for gardens or flower beds.

Makes Charming Gates

DUBOIS comes in 5-foot sections, in two heights, 4′ 11″ and 6′ 6″. It is also made up into charming gates, either curved or straight across at top.

Dubois is exceedingly strong and durable. No paint is required. Moderate in cost, it is by far the most economical way of artistically fencing an estate or yard, or screening unsightly views.

Send for New Portfolio

HOW Dubois is being applied to solve the various screening or fencing problems of country estates, and suburban and city yards, is illustrated in a portfolio, free on request. Robert C. Reeves Company, 187 Water Street, New York.

DUBOIS Woven Wood Fence

MADE IN FRANCE

bert C. Reeves Company, the largest Wooden Fence distributor in the United States, is headquarters for all types of open fencing, from quaint, rustic designs of decorative character to the very heavy hurdle fences for farm use, as well as wire netting. Among the various domestic and imported fences carried in stock and available for prompt shipment are:

Reeveshire Hurdle Fence *Post and Rail Fence*
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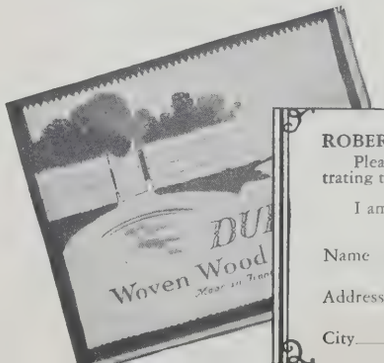
Descriptive literature and prices of each gladly sent on request.
(*Dealers: Write for Special Agency Propositio*.)



Simply fill out and mail coupon to receive this new portfolio illustrating the many charming effects to be had with Dubois.

ROBERT C. REEVES CO., 187 Water St., New York
Please send, without obligation, your new portfolio illustrating the many interesting ways *Dubois* is being used.

I am also interested in your _____
(mention any special fencing)

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HERE they are, millions of them, speaking for themselves. From the very start I have contended that *American* Grown Narcissi would *more* than hold their own in competition with imported bulbs. For years I played the role of "wilderness prophet." Now, imported bulbs are neither available, nor are they needed. The children of our own fair land are ready to do their parts in your all-American garden schemes.

Alongside I offer some of my specialties. All orders accompanied by check will be delivered free at your door. A twenty-four page booklet is yours for the asking—it describes hundreds of varieties of *American* Grown Daffodils, Tulips, as well as some particularly choice Japanese, Dutch and Spanish Iris. Please send for booklet TODAY, and mention G. & H. B.

George Lawler *Bulb Grower Gardenville* **Tacoma, Wash.**

Popular Trumpet Daffodils

	Per Doz.	100
Emperor—Rich yellow trumpet, with primrose perianth	$1.00	$7.50
Golden Spur—One of the earliest—a bright golden yellow	1.25	8.50
Madame de Graaff—A magnificent snow white, with trumpet tinged primrose	1.00	7.50
Madame Plemp—A late blooming beauty with yellow trumpet and white petals	1.00	7.50
Victoria—Bicolor, yellow trumpet and white perianth	1.00	7.50
King Alfred—Rich yellow, one of the finest large varieties	2.50	20.00

Quantities of 50 at the hundred rate

Mixture A—For Naturalizing

1,000 mixed Daffodils of many sorts, not named, for naturalization, including Trumpet, Chalice Cup and Poet's Narcissi, suitable for large plantings in grass, woodlands, etc. **$65.00 per 1000**

Various Other Narcissi

	Per Doz.	100	1000
Barri conspicuus—Broad, yellow petals, with short, wide cup of darker yellow, edged red	$ .75	$6.00	$50.00
Poeticus recurvus—(Pheasants Eye) Reflexing perianth, with red eye. Late Bloomer	.50	4.00	30.00
Alba Plena odorata—Double pure white flowers of pronounced fragrance	1.00	7.50	50 00
Leedsi, Mrs. Langtry—White perianth and pale primrose cup	.75	6.00	50.00
Leedsi, White Lady—White perianth, dainty canary yellow cup	.75	6.00	50.00
Leedsi, Minnie Hume—	.75	6.00	50.00

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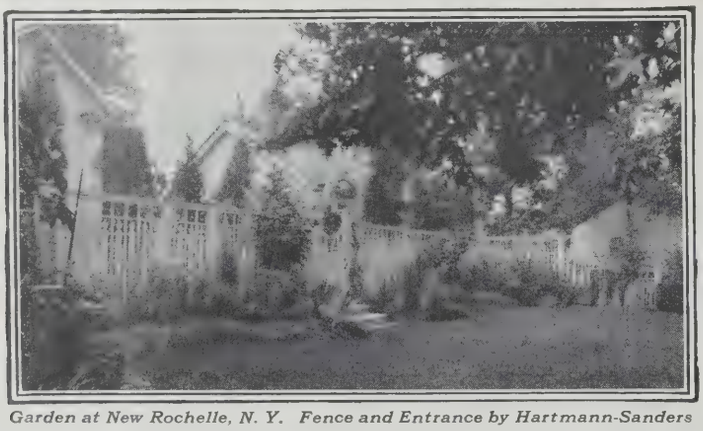
Mixture B.—For Cutting

1,000 Single Chalice Cup Narcissi, mixed (Incomparabilis, Leedsi, and Barri varieties). The charming effect of these light, graceful Daffodils, when naturalized, must be seen to be realized. **$65.00 per 1,000**



Garden at New Rochelle, N. Y. Fence and Entrance by Hartmann-Sanders

Beautiful Home Surroundings

The human desire for beauty is back of every purchase of a Hartmann-Sanders pergola, rose arbor, trellis, ornamental fence or other garden equipment.

Shown above is a typical example of Hartmann-Sanders craftsmanship. This fence and entrance was created, built and shipped by us ready to erect.

Hartmann-Sanders garden equipment combines classic beauty with stability. It not only adds charm and distinction to the grounds, but enhances the value of the property as well.

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Pergolas
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KOLL LOCK-JOINT COLUMN
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Garden Equipment and Accessories

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In all its wonderful entrancing beauty, and your "Winter of Discontent" may be made a glorious summer by planting some of the CHOICE CHERRY HILL NURSERY STOCK.

The many Thousands of SPECIMEN EVERGREEN TREES and SHRUBS that we are offering for sale this season are a living testimony to that Quality which alone can give your garden and grounds that air of DISTINCTION and LOVELINESS which appeals so much to the HOME BUILDER.

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CHERRY HILL NURSERIES

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Write for Season's Most Complete Bulb Catalog----*It's Free*

WE consider our present bulb catalog the most complete and as reliable a guide to bulb culture as has ever been published. Neither expense nor effort have been spared to make it useful as well as interesting. Sixteen pages in color will prove helpful in forming accurate ideas as to the character of the bulbs we offer. Of particular interest to rock garden owners will be our extensive collection of botanical species of Tulips, Crocuses, Erythroniums, Brodias, Cammasia, Colchicum, etc., many of which are offered by us exclusively. Connoisseurs will also be delighted with our extensive and yet extremely select list of Darwin, Breeder and Cottage Tulips. Among the latter we offer for the first time this year the new late flowering Cottage Tulip, of recent introduction. Please ask for this exceptional bulb book to-day, and kindly mention G. & H. B.

A Gorgeous Tulip Border----*At Small Cost*

Last fall we arranged with Holland's foremost bulb specialist to make an extra large planting of four exceptionally good varieties of Tulips. Regardless of what you may pay for other Tulip bulbs, we know that these offered here will be a credit to your garden—as well as make friends for us. These bulbs will be hand picked specimens, every one a potential flower in embryo. Packed by experts in Holland in separate bags and packages, they should reach you in ideal condition and give splendid results.

They are pictured above, and portray fairly accurately the following varieties:

1. **Europe**—a brilliant vermilion-scarlet of great luminosity. A Darwin with 24 inch stems.
2. **Cardinal Manning**—a wine red with rosy-bronze shadings, turning into rosy violet. A Breeder with 28 inch stems.
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4. **Inglescombe Yellow**—a glossy canary yellow Cottage Tulip with fine, globular flowers on 23 inch stems.

100 Bulbs, 25 of each of above 4 varieties, for only $5.00

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Tells you what to look for every month—

When and where the most beautiful wild flowers can be found—

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Etc., etc.

FREE! ~ "NATURE'S PROGRAM"

A month-by-month guide to Nature's secrets

HOW disappointing it is not to know when the first bluebird is due! What a loss it is never to see a flying squirrel in full flight! How angry we are when we come upon some of the most beautiful wild flowers only when they have dropped their blossoms for the plain, matter-of-fact seed.

Perhaps you have often experienced this sensation *of being too late*. Perhaps you have despaired of ever coming upon some of the most fascinating of Nature's wonders. Perhaps some of your pleasure has been robbed because you never knew when and where to find the objects of your search.

Then you can imagine what a rare delight "Nature's Program" will be for you. Here is a book all nature-lovers have wanted; a book that is a month-by-month guide to Nature. From week to week this unique book will tell you *what* to look for, *where* to seek it, *when* to find it.

WHAT'S ON THE PROGRAM NOW?

For example: Suppose you start out right now, what can you find? What wild flowers are in bloom? What birds are to be seen and where? What are the animals doing? Turn to the present month in "Nature's Program." There you will learn exactly what you can expect to find, *and where to look for it.*

This practical guide, however, not only can be referred to by dates, but by subjects. Suppose, for instance, you want to know when and where the Wake Robin can be found. Or suppose your little boy finds a velvety black caterpillar which will later become a Painted Beauty and wishes to know when this glorious creature will emerge from its chrysalis.

Turn to the index of "Nature's Program," and find the creature or plant or flower you wish to know about. All the important plants, flowers, birds, animals, and butterflies are included. The index refers you back to the proper place in the dated guide, where you will find exactly the information you seek.

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This wonderful book which can add so much to your pleasure will be—GIVEN TO YOU FREE! Simply write your address on the coupon below, and enclose 25c for postage and packing.

Why is this offer made? Because for years we have been foremost in the publication of books of Nature. We want to reach Nature-lovers in order to keep them informed of new Nature books as they appear. So, to learn who they are, we ask all lovers of the fields and woods to send us their names and addresses. For this courtesy we will send them a copy of "Nature's Program," this invaluable all-year-round guide to Nature's secrets.

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THIS type of fireproof TAPERED AMBLER ASBESTOS Shingle is "the last word" in Ambler Asbestos Shingles or roofing Slates—They are $\frac{1}{8}$" upper end x $\frac{1}{2}$" at butt x 20" long, are artistic, with plenty of "texture," light and shadow effects, are fireproof, good looking and everlasting.

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Hammond's *Gold Medal* Insecticides

Compounded on the basis of extensive research in laboratories and practical experiments in garden and field, Hammond Remedies have never failed to efficiently fight the foe against which they were directed.

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Continues to be the nation's chief weapon in its fight on the Colorado Striped Beetle commonly known as Potato Bug. Since 1880 it has done duty in combating all sorts of leaf chewing insects without injury to humans, animals, fowls, plants or foliage.

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Is still doing valiant work after being in use for *over* forty years! Kills all Aphis, Red Spider, White Fly and other pests that need a contact body poison. Other Hammond Remedies are Copper Solution, Bordeau and Horicum about which more is said in instructive free booklet.

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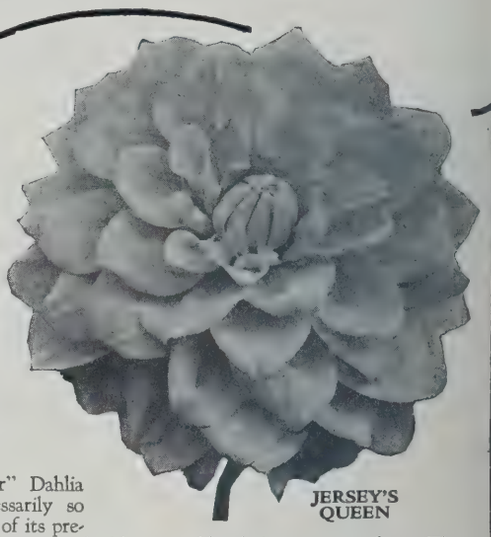

Some "Mighty Good" Moderately-Priced Dahlias

The high-priced "Star" Dahlia Novelty is not necessarily so much better than some of its predecessors, as to make it worth double or treble their present value. The limited supply of roots available in its first year's distribution necessarily compels a fancy price for a novelty. Here are a few leaders of past years that are now moderately priced and still in the running with the latest novelties.

	Plants each
Amun Ra—(The Sun God) a huge decorative, a brilliant blending of copper, orange and amber	$1.50
Champagne—(Decorative) a delightful shade of chamois suffused with copper	2.50
Insulinde–(Decorative) Large flower of fine form, a real Autumnal, golden orange shade	1.00
Jersey's Queen—(Decorative) A very uncommon and pleasing shade of rich coral pink	2.50
Mrs. I. de Ver Warner (Decorative) Large blooms of orchid-pink borne on long wiry stems	1.00
The Emperor—(Decorative) Enormous flowers of deep maroon-red on extremely long, upright stems	1.00
List value	$9.50

SPECIAL PRICE: The above six wonderful Dahlias for $8.50

Complete Descriptive Catalog of Choicest Bulbs, Seeds and Nursery Stock, beautifully illustrated in colors, mailed free on request

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NOT many know the beautiful Violas. They are wonderfully attractive and are neither violets or pansies, having charms all their own. Just the plants for partial shade. Constantly in bloom and the more the flowers are picked, the more the plants flower. Flowers last well when cut.

Try a good sized bed of Admiration, edged with a double row of white Perfection; or Lutea Splendens, edged with Admiration, or other combinations. The English bedding strains make fine beds of solid colors.

VIOLAS. Admirabilis, dark purple and yellow; Admiration, glistening dark blue; Bowles Black, quite black with gold point in center; fine for rockeries; Blue Perfection, large, light blue; White Perfection, white, yellow eye; Lutea Splendens, yellow; Mauve Queen, mauve; Papilio, violet; $2.00 per dozen.

English Bedding Violets, blue, purple, white, yellow, $1.50 per dozen.

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Roses, Shrubs, Evergreens, Shade Trees, Vines, Climbers and Trailers, Cannas, Gladioli and tender plants.

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Get acquainted with new and beautiful plants. Our field grown, Northern Vermont plants, thrive anywhere.

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A Beautiful Lawn

A RICH deep green lawn, soft, smooth, and like a spread of velvet—it breathes an atmosphere of rest and lends to the homestead a touch of peace and beauty.

The lawn is a permanent feature of the home and after being established will last almost indefinitely. Its beauty and lasting qualities depend primarily on the right kind of lawn grass seed, and we suggest that you plant Burpee's Fordhook Finest—our renowned brand that has proven its value for nearly half a century.

May is an ideal month to start the lawn. Sow 1 lb. of seed to 400 square feet or 100 lbs. per acre.

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If you are contemplating building a greenhouse or adding to your present one, you will find this information invaluable. The book contains illustrations of all kinds of greenhouses from the modest lean-to or conservatory to the great range of glass; goes into details of construction of foundations and the glass enclosed structure; different types of benches, ventilation, heating, etc. It shows you how to ask for estimates and plans for just the type of greenhouse you desire.

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Aquilegias	**Iris**	**Phlox**
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Most of these plants are in pots so that they can be safely transplanted at any time. We shall be pleased to mail a copy of this catalog to all who intend to plant perennials.

We also publish an illustrated catalog of Evergreens, Shrubs, and Vines and a list of potted Roses for late planting.

In your request for catalog, it is important to state definitely what you intend to plant.

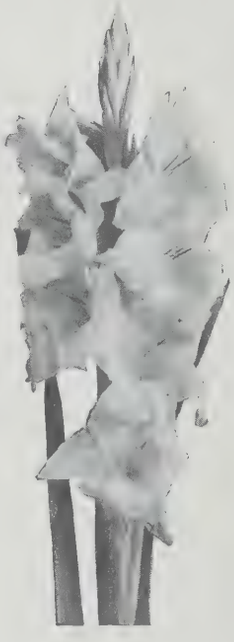
BOBBINK & ATKINS, Rutherford, N. J.

NURSERYMEN AND FLORISTS

Planting Time

Judge Marean
Decorative Dahlia

Winter and the fickleness of early spring are gone and it's work-time in the garden. Fresh washed skies, new green trees, soft warm breezes dancing across nodding tulips and jonquils, are ample compensation for tired and aching backs. The garden paths are cluttered with rake, hoe, and trowel. Planting time is work-time, but it's glorious to help nature create. For a larger reward for your efforts, plant "KENTUCKY BRED" flowers, plants, seeds or bulbs.



"Kentucky Bred" Dahlias—have all the vigor and hardiness of "Old Kentucky's" pioneers, all the romance and beauty of her beautiful women. Late summer's fulfilment of early promises is complete in our dahlias.

Plant "Kentucky Bred" Glads—from April to June. They will make glorious the garden from July to October. Sharp, vivid colors, a delight to the connoisseur—new and old varieties in profusion. Don't forget the old fashioned garden of **Hardy Plants:** Phlox, Hardy Chrysanthemums, Columbine, and all the other varieties that are as well loved today as they were in our grandmother's time.

Ask For Our Bargain Gardens

It's easy to make a reality of the garden you have planned and dreamed all winter. Send for our 1926 catalog, an authority on dahlia culture—complete lists of plants, seeds, bulbs, and ornamentals. Write

Jacob Schulz Co., Inc.

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A visit to this famous nursery during the early spring and summer months is always interesting. Here you will find a choice collection of Conifers, including many of the newer sorts, also Rhododendrons and Japanese Azaleas in the greatest variety.

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Dear Sirs:
I want to save my roses. Send me a Dollar can of MELROSINE. Payment enclosed.

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In this bathroom is a new GOLD SEAL INLAID — *Belflor Pattern* No. 7151-5. *Notice the square blocks, straight with the goods. In the bedroom the brown and tan of Belflor Pattern* No. 2047-3 *harmonize effectively with the furnishings.*

Present-day vogue demands a colorful bathroom

Dutch Tile effects are always popular for the kitchen. This clean-cut blue, buff, and ivory design is GOLD SEAL INLAID, *Universal Pattern* No. 51-150.

Attractive, isn't it? As a result of its colorful blue and buff inlaid linoleum floor, there's more interest and charm in this bathroom than in a room of the conventional white.

Yet, rich as this Nairn *Gold Seal Inlaid* floor appears, it is inexpensive and easy to keep spotless. It's one of the new *Belflor* patterns, exclusive with Nairn. This novel inlaid linoleum offers a soft clouded effect that is wonderfully artistic. It comes in such appropriate color combinations that many women select it for the bedrooms, living room, dining room and sun porch.

Another type of *Gold Seal Inlaids*, just as appropriate for kitchen and bathroom, is *Universal*—trim patterns in solid colors that are superlatively cheerful and neat.

Gold Seal Inlaids are genuine straight line inlaid linoleum. They are made and guaranteed by Nairn—famous for nearly forty years for the quality and beauty of its products. When buying inlaid linoleum always look for the Gold Seal on the face of the goods or the Nairn name on the back.

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GOLD SEAL INLAID
Belflor Pattern No. 7150-5

Look for this Gold Seal when you buy!

Our free booklet will give you suggestions for decorating your rooms. Write for it to-day.

NAIRN
GOLD SEAL INLAIDS

Frigidaire

ELECTRIC REFRIGERATION

A priceless treasure in any home—Frigidaire

INTO the homes of America has come a new standard of luxury—Frigidaire Electric Refrigeration. It has established new measures of convenience, cleanliness and economy. Because it provides thoroughly dependable refrigeration at all times, it has made possible a new richness and delicacy of flavor in all foods. Hospitality, from the simplest of refreshments to the most formal of entertaining, has become at once easier and more enjoyable.

And today, any home where fine living is appreciated may enjoy this great modern luxury. New Frigidaires are now offered at new low prices. There is a complete range of new models built complete with metal cabinets, finished in white Duco and trimmed with bright metal, lined with seamless, porcelain-enameled steel. They will adorn any home—and they will give the same dependable service that is already being enjoyed by more than one hundred thousand Frigidaire users.

We will be glad to mail on request a very interesting book of architects' designs and plans for kitchens equipped with Frigidaire. It contains valuable suggestions for those who are planning new homes. And it shows, too, how easily Frigidaire may be made to serve in the home you now have. Write for this book today.

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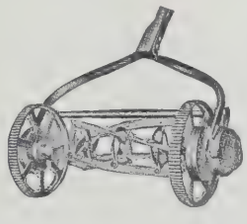

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and how to win them

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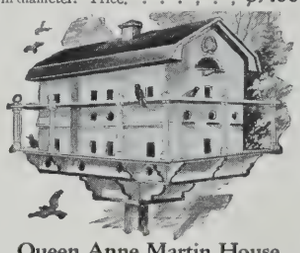

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only $8.50

Stocked with a few simple foods they crave and Dodson's Suet Cake and Grain Mixture, lures Songsters from the whole neighborhood. Automatically revolves to protect birds from storms. Cypress, finished in white and green. Sizes 24 x 22 x 12 in. including 8 ft. pole **$8.50**

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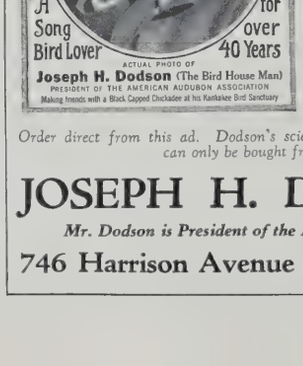
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Free

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Plant Now—Enjoy It Next Year

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50 Giant Roots will plant 3 rows, each 50 feet long and furnish a generous supply for the average family of 4 or 5 persons. Larger Quantities Priced on Application. Our FREE Illustrated Asparagus Booklet sent on request.

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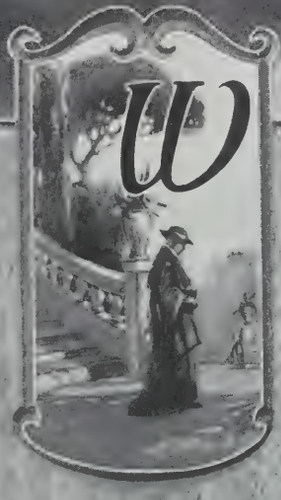

WHEN the pupils of the great French masters of design drifted southward along the Mediterranean in the Eighteenth Century, and undertook commissions for Doge and Prince and Cardinal; their chief contribution to Italian furniture was an added grace and purity of line. The whole history of this epoch may be traced in the delicate tapering columns of this Ligurian consol, contrasted with the more rugged beauty of its historical predecessor, the Brescian wainscot-chair beside it.

These pieces will give to your hall or living room a flavor of piquancy; and serve as an index of your own ability to read "sermons in stones" and glean a whole page of History from the flare of a chair-arm, or the subtle tracery of a curve.

These and other delightful Elgin A. Simonds pieces are sold by Dealers of Distinction everywhere. Write for the names of the nearest. In asking for the pieces illustrated call for 2952 arm chair, 4017 consol table and 40 tapestry.

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Individualism — in Good Furniture

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GARDEN & HOME BUILDER

MAY, 1926 — Volume XLIII, Number 3

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LEONARD BARRON, Editor — *LUCY E. HUBBELL, Associate Editor*

The Forecast for June

CONVERTING Old Houses and Old Gardens to Our Own Modern Needs" by Amy Richards Colton, decorator, discusses in friendly and convincing fashion the way to achieve individuality without the possibility of disappointment. The cost, Mrs. Colton asserts, will be less than if the dwelling were built in the beginning from plans and specifications and can be more accurately computed beforehand—and a shorter time spent before moving in. Mrs. Colton illustrates her article with photographs of attractive houses and gardens which have been successfully "converted."

In "Redeeming Victorian Gimcrackery," Wesley S. Bessell, Architect, offers many practical hints and suggestions for restoring simplicity and dignity to the Victorian house, strong and sturdy, but ugly and frosted with the "gingerbread work" so popular in the late 19th Century.

"The Beauty of American Rugs" by Ellen D. Wangner shows just how the average buyer of a domestic rug may determine its wearability by the quality of wool and weaving. The different kinds of rugs will be treated, with illustrations of the newer rugs that reproduce in quality, color, and texture all the beauty for which the Oriental carpets have been famous. Mrs. Wangner also gives many helpful suggestions as to the care of rugs to insure long life and satisfaction.

"Old Clocks and Their Modern Descendants" is a fascinating little story of the invention of the banjo, "wag-at-the-wall," grandfather, and other types of timepiece that have an interesting human background. Illustrated by sketches of these old types and photographs of their modern descendants which may be had by the present-day home owner.

FOR the gardener a wealth of suggestion concerning attractive water gardens is included in June. "Man-made Lakes and Pools" comprises articles by four different authors from four different points of view, and includes both the larger lakes or ponds and the very little pool which a man can make for himself, accompanied by sketches showing actual steps in construction and planting lists of water plants. Other inhabitants of the pool are discussed by Norma H. Smith in "Raising Goldfish for Pleasure"—their breeding, feeding, etc.

"'Beauty Doctors' of the Gladiolus" by Forman T. McLean is concerned with the hybridizing, developing, and breeding of the modern Gladiolus from the earlier and less decorative strains. Contributions of earlier workers in the field are discussed, and the article is accompanied by photographs of the most decorative flowers.

"Gardens of France," by Herbert W. Faulkner presents to the gardener interested in travel an itinerary with suggestions about permits, visiting days, etc.

HELP will gladly be extended to any one desiring information on garden planning, home building, community planting, and other topics discussed on these pages or of special interest to readers. It will expedite matters if inquiries are sent direct to the Editors of GARDEN & HOME BUILDER.

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Dining Room furniture must serve two masters. It must be sufficiently informal for the family gathering, yet possess a more dignified mien for the formal dinner. The happy combination of these essential qualities is to be found in a suite such as that pictured above. It is but one of the many beautiful sets now available at moderate prices.

W. & J. SLOANE

47TH STREET AND FIFTH AVENUE
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SAN FRANCISCO WASHINGTON

GARDEN & HOME BUILDER

Vol. XLIII, No. III MAY, 1926

News and Comment

HEN we are inclined to turn a bit philosophical about the things around us, like as not we will find that someone has long ago touched the same theme. Do we think that we are making fashions in homes and gardens—or are our homes and gardens making our fashions?

Said the Reverend Francis Coventrye in *The World* for April 12, 1753, "Gardening, being the dress of nature, is as liable to the caprices of fashion, as are the dresses of the human body." Which suggests that like costume, and building, and literature—other similar forms of expression—it may reveal the true character of its period.

The Elizabethan age, for instance, was more than usually fantastic. In its huge ruffs, its elaborately slashed sleeves and doublets, even in the quaint cuts of hair and beard it showed its liking for the unusual in dress. Its half-timbered houses often had highly decorated façades, and its more formal architecture was an interesting mixture of Gothic and Italian. In literature its prose was elaborate, its poetry "conceited" and heavy with colorful description. Correspondingly ornate were its gardens. The flower-beds were surrounded with low painted fences of wood. There were "knots," designs so complicated that they were sometimes carried out in colored sands or earth instead of flowers, the nadir, it would seem, of gardening, amply deserving Bacon's comment: "They be but toys; you may see as good sights many times in tarts." Mounts—artificial elevations—provided outlooks over the encircling walls. Mazes furnished distractions. Elaborate arbors, galleries, pleached alleys diversified the scene.

ANDREW MARVEL'S "The Garden," most quoted of such English poems, significantly culminates in the description of a sun-dial worked out in flowers. On the whole the Elizabethan taste showed itself all of a piece in costume, architecture, literature, and gardening. Yet the gardens of this period were, after all, intended for enjoyment, not merely display. So Bacon could call a garden "the purest of human pleasures" and "the greatest refreshment to the spirit of man"; and Lawson (1618) could find in it "the honest delight of one wearied with the works of his lawful calling," removing "the tediousness and heavy load of three or four score years."

With the Restoration the drift of years toward classicism in England found dominant expression in literature, and assisted by French influence, was similarly prominent in gardening. Le Notre's long avenues, fountains, cascades, and woodland groves, all symmetrically arranged as at Versailles, were imitated in English gardens, just as the great curled wigs, artificiality incarnate, covered every shaven head, and the heroic couplet formalized almost every poetic expression. Sir William Temple expressed the ideals of the period thus: "Among us the beauty of building and planting is placed chiefly in some certain proportions, symmetries, or uniformities, our walks and our trees ranged so as to answer one another and at exact distances." That is the very essence of classicism.

THEN politics gave English gardening an unexpected and hardly natural direction. The Elizabethans had trimmed trees into the shapes of animals and what-not, but now the Whig victory of William and Mary made this topiary work the fashion. Coventrye, in the satiric essay already quoted, says, "The mournful family of Yews came over with the house of Orange; the sombre taste of Holland grew into vogue; and straight canals, rectilineal walks, and rows of clipt evergreens were all the mode . . . yews in the shape of giants, Noah's ark in holly, St. George and the dragon in box, cypress lovers, laurustine bears, and all the race of root-bound monsters, which flourished so long and looked so tremendous round the edges of every grass plat. . . . It was the compliment which England paid her new sovereign, to wear the dress of a Dutch morass."

The next period also contributes an anomaly in this related history of literature and gardening, and yet shows their fundamental connection. Against all this artificiality and regularity the leaders were, of all men, Addison and Pope, the very arch-priests of classicism. Addison in *The Spectator* as early as 1712 pleaded charmingly for what we should call a wild garden, and Pope in *The Guardian*, 1713, satirized "Adam and Eve in yew; Adam a little shattered by the fall of the tree of knowledge in the great storm; Eve and the serpent very flourishing" and other forms. The actual carrying out in gardening of the newer conceptions did not come till the '30's after Pope had published his "Epistle on Taste."

Pope's positive advice was to "Consult the genious of the place in all" and "Let Nature never be forgot." All of which is not so surprising after all; Pope and Addison, like other men, had some so-called romantic tastes and could not fail to respond to the influences making already for the unsettlement of classical ideas. Kent, Bridgman, and "Capability" Brown were the famous gardeners to follow Pope's advice. The Ha-has—admirable and amusing name for the hidden ditches which could efficiently yet unobtrusively separate parks from pastures—made possible the breaking down of walls and the "bringing of nature to the parlor windows." Nature was the cry, and because Nature, it was said, knew not a straight line, the noble avenues were chopped down, the rectilinear pools changed to irregular lakes, and walks set to wandering about in—to the practical mind—a leg-wearying manner. Even in little villa enclosures the paths had to wind. Our same Coventrye questions whether any of these gardeners would consent to go to Heaven in any path that is not serpentine. Thus the natural became a matter of rules, and as Sir Walter Scott said, the result was not simplicity but "affectation laboring to seem simple."

Following this idea still further was the Picturesque group. A forerunner was the poet Shenstone, who beggared himself over his garden at Leasowes with its vistas, cascades, set views with carefully placed seats, and delicately imagined inscriptions. The general principle of the picturesque gardeners was that anything that looked well in a picture would look well in a garden. So they broke up with beds the broad sweeps of lawn favored by Kent, they cherished cliffs, gnarled oaks, and ivy-grown ruins, and if these were missing created them. One of these gardeners carefully placed at the end of a vista a feigned church-spire. And again the little villas caught the note of the period by rockeries—heaps of unusual stones and fossils overgrown with a romantic, wandering vine.

And in the next period also gardening expresses with striking clarity the prevailing spirit. Whatever defenses may now be fashionable for the Victorians, few will say much for their tightly laced gowns, their marble-topped tables, or their many turreted houses. The pretentious vulgarity which brought these into being also was gratified by the bedded-out carpet gardens of tender annuals which required great greenhouses to provide them and an army of gardeners to tend them. What more unquestionable proof of wealth and therefore of taste?

ALL of which brings us to ourselves, for we still seem pretty much dominated by the ideas of Mr. William Robinson, who in 1883 revolted against this bedding-out system, and brought back the old-fashioned hardy perennials. This more natural form of gardening—but how all schools appeal to nature—with the use of bulbs naturalized in large numbers, of rock gardens, of water gardens, etc., would suggest that we are a less artificial age than that of one hundred years ago. Or are we, on the contrary, more sophisticated, and are our carefully planted natural gardens only the artistic gratification of a taste for the untrammeled which our highly complex society does not allow us otherwise to gratify? Signs are not wanting in literature and in architecture that our taste is turning toward classical restraint and intellectual rather than emotional appeal. Perhaps we, like Pope, are only affecting the natural. At the same time the dominant expression of many of our gardens is in at least one respect that of the Elizabethans—they are places of secluded enjoyment not show; of an added room to the house not of a public park.

H. G. F. Reynolds

SPRINGTIME ON LONG ISLAND

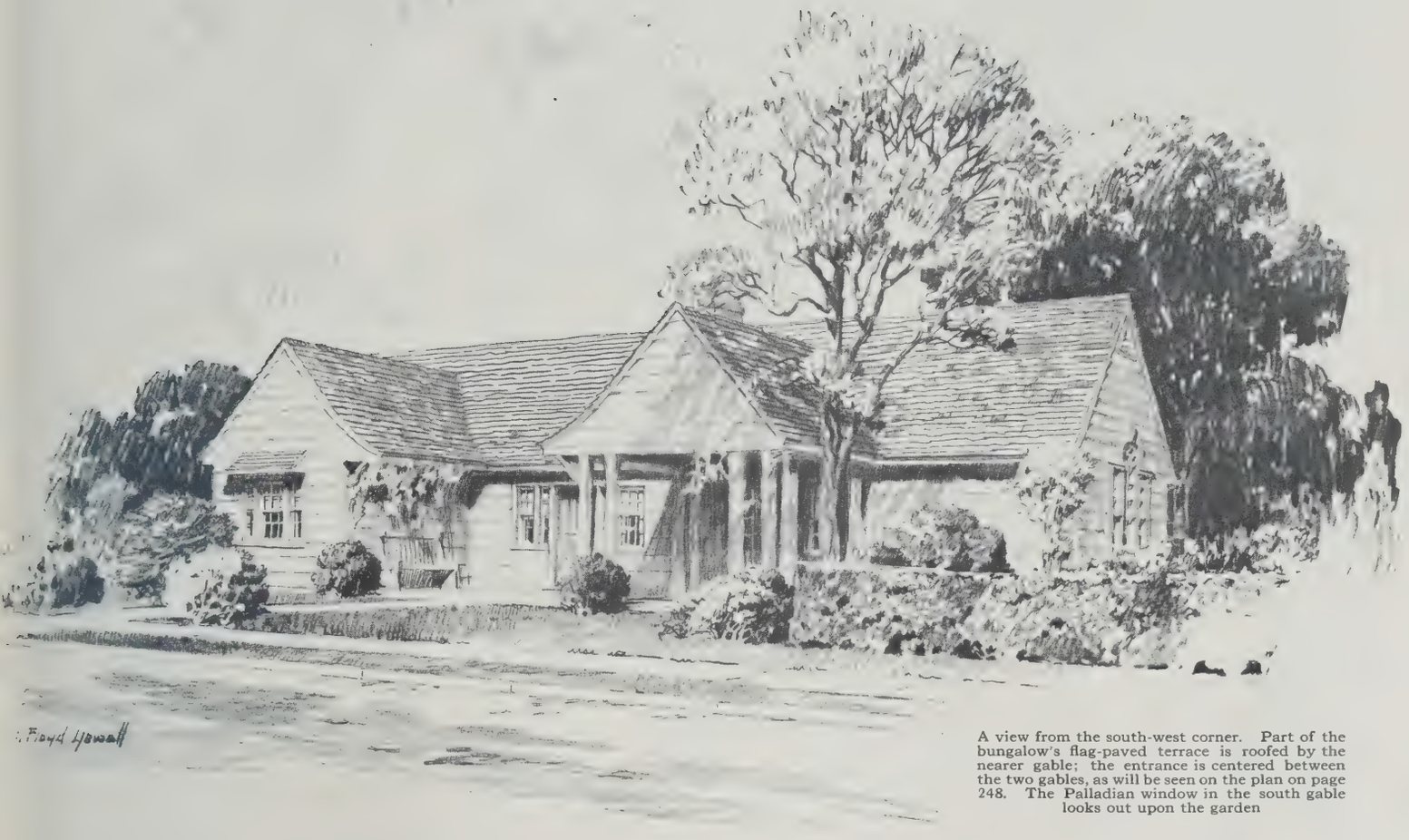
Box outlines the beds where Tulips fringe the later growing perennials, with pyramid specimens at the angles. Narcissus around the pool, and the tall accents are given by Red Cedar which also forms the arch

SPRINGTIME IN MICHIGAN

Along the Grand River about seven miles south of Lansing, Michigan

Photograph by Thomas Ellison

Garden of Mr. C. G. Edgar, Grosse Point, Michigan. William Pitkin, Jr., Landscape Architect



A view from the south-west corner. Part of the bungalow's flag-paved terrace is roofed by the nearer gable; the entrance is centered between the two gables, as will be seen on the plan on page 248. The Palladian window in the south gable looks out upon the garden

Our One Story Garden Home

Bungalow Specially Designed for GARDEN & HOME BUILDER by Henry H. Saylor, Architect
Planting Plan by Loutrel W. Briggs, Landscape Architect

FIFTEEN or twenty years ago, when the term bungalow became a name with which to conjure it seemed likely that the one-story house was a mere fad which, like other building eccentricities, would soon pass. And yet, though fads and fancies in building are necessarily less ephemeral than, say, the length of skirts, and the bungalow could not come and go in the space of a few years, it apparently is as much in favor now as ever before.

Usually the reason advanced for its popularity is that people rather like the idea of doing away with stairways, and prefer the gathering together of all the household activities on one floor level. There may be something in this argument, though the prevalence of so-called "bungalows" that have at least some of the bedrooms upstairs leads me to suspect that the chief reason for their popularity is based, instead, upon exterior appearance. People like a low-lying mass, a house which hugs the ground. Consciously or unconsciously they respond to the same impulse which leads the architect to cut down his floor heights, sink his basement windows into areas, introduce horizontal lines of emphasis, bring down his eaves lines. We build our houses on the surface of a whirling globe; the more closely we can hug that surface, the greater the feeling of stability, endurance, and general satisfaction the result inspires.

DETAIL PLANS UPON APPLICATION

By agreement with Mr. Saylor GARDEN & HOME BUILDER is privileged to offer its readers complete sets of blue prints of plans and specifications of the One Story Garden Home at the nominal charge of $25 for three sets of each. For blue prints or further information please write to Editor GARDEN & HOME BUILDER, Garden City, N. Y.

THE design that is here presented is a real bungalow—not a story-and-a-half house. Its roof is unbroken by dormers, its gable ends frankly proclaim its one-story character. Its unusually long roof lines and its low eaves, together with the judicious planting that Mr. Briggs has suggested, tie it snugly to its site.

In plan the entrance is a pivot between the three major divisions of the household—living quarters, service quarters and sleeping quarters. It avoids the rather common fault of having bedrooms or bath in close proximity to the living room. The entrance hall is large enough to seat a casual caller whose business need not take him into the inner councils, and this seat will not bring his eye or ear too close to the living room activities. Moreover, it requires but a step from the service quarters to answer the front door bell, without invasion of any other room.

The plan includes a maid's room, with her own toilet and lavatory (assuming that she

will tub after the English mode), but it will be noticed that, where no servant is employed, this bedroom can be joined with the other sleeping quarters by having its doorway open into the hall instead of into the kitchen.

The design gives the living room, 15 ft. 2 in. x 22 ft., its rightful domination of the whole. To this end the dining room has been given up, as requiring a lot of space for use during only three hours out of the twenty-four. In its place a wide bay extends to the sunrise on the secondary axis of the living room. This bay, with its own china closet, is close by the small pantry that serves to cut off kitchen odors. When it is desired to serve a meal out on the flag-paved porch, it is but a few steps further

from the pantry, or it may be served on the open terrace directly from the kitchen through the hall.

The two ends of the living room's main axis are marked by the fireplace at the north and by the large Palladian window looking out upon the garden to the south. The triple window of the dining bay, and the glass door and flanking windows opening upon the porch complete a generous lighting of this room while providing an unusually large expanse of wall space—in many plans found in such narrow bits as to be useless as a furniture background. This room takes advantage of the space enclosed under its unbroken roof, its rough plaster surfaces being carried up on the rafter slope to a height of 13 ft. 8 in. With its large gable end window the room gains much of the spaciousness of a large studio.

Throughout the rest of the house the ceiling height is 8 ft. and the attic space overhead is made available for storage purposes by means of a stairway that lowers on balanced weights in the passageway before the bathroom door, disappearing in the ceiling when not in use.

The bedrooms, while not large, are planned with furniture needs in mind, and are well provided with closet space. The east bedroom is 10 ft. x 10 ft.; the west one, 9 ft. x 11 ft. and the maid's room 8 ft. x 10 ft.

THE combination of porch and open terrace is one that gives a maximum of outdoor living space with a minimum darkening of rooms by overhanging roofs. It offers shelter when shelter is desired, but is no less welcome to one who prefers to sit and gaze up at the stars.

On account of its length the house is not one that is adapted to furnace heat; hot water, steam or vacuum vapor systems offer satisfactory equipments to suit the individual preference. The heater is located in the cellar, under the kitchen, the coal-bin being placed at the north end, where it is filled through a coal window that can be reached by chute from the street.

The inside cellar stairway, leading down fro the kitchen, serves also, with its hooks an shelves, as a storage space for pots and pan that can find no resting place in the kitche cabinet by the sink. If a coal range is use its smoke pipe crosses the cellar stairwa overhead to enter its flue in the one chimne If a gas or oil range is used a vent flue follow the same course.

Access to an outside cellar entrance stairwa is gained by raising hinged doors in the rea porch floor. The refrigerator platform at th end of this porch is raised, both for conve ience of access and to gain head-room for th cellar stairs.

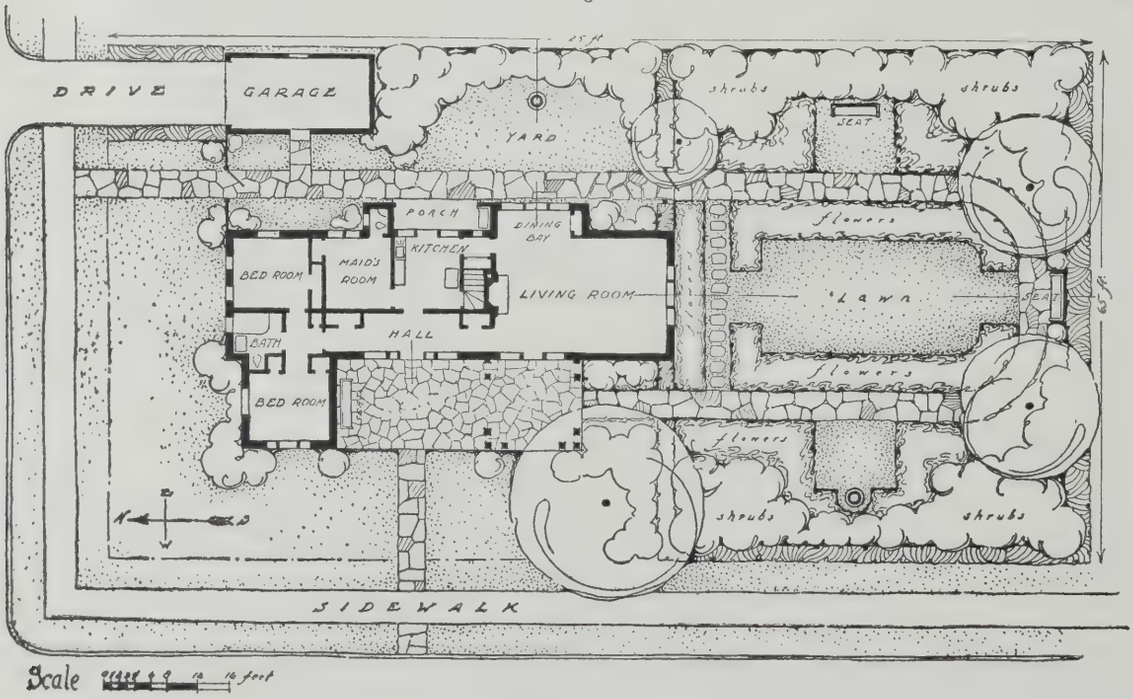
The working drawings call for a cellar e cavated under the whole of the house exceptin the bays to west and to east. Less cellar spac than this might serve, saving some excavatio but the earth should at all points be at lea two feet below the floor joists. The founda tion walls may be of concrete poured in form or of blocks, and the working drawings provic a base course of brick to effect a proper trans tion to the wood superstructure. Sawn shin gles of two feet length are used in the wal as drawn, the courses spaced 11 in. to weathe There is, of course, nothing in the design itse that makes it necessary to use shingles on th walls rather than stucco or brick. In fact th design of the house is one that lends itself pa ticularly well to either of these wall material and in many localities the cost would not b greatly increased. A particularly interestin variation would be a rough stucco exterio with slate roof and steel casement windows, i which case the large Palladian window shoul be re-designed.

In the same way the roof material may b

The two end elevations and the service side, taken from the working drawings. The top drawing shows the end of the living room, the ceiling of which extends higher than the rest of the interior, as is shown by the dotted lines.

On the middle drawing the dotted lines below grade indicate the coal window, reached by chute from the street.

The service porch, the gable of the dining bay, and the outside entrance to cellar from rear porch are shown in the long elevation



The floor plan of the bungalow an the landscaping of a corner plot si are shown in this one drawing. Th landscape architect has indicated treatment of a S. E. corner, 65 x 1 ft. This permits an entrance to th garage from the side street, avoidin the expenses and waste space of a extended driveway. A wood fen with a gateway joins the garage t the corner of the bungalow, givin seclusion to the space that migh be used as a drying yard. The lo paths, and the opening of vist along the major axes of the pla make the utmost of the availab space.

In the floor plan itself, the thr elements—living room, kitchen an sleeping quarters—are kept qui distinct yet all pivot on the entranc hall. There are ample closets, tiny pantry between kitchen an dining bay, and plenty of storag space in the attic. For the famil that prefers to do without a mai the extra bedroom may be opene into hall instead of kitchen

selected with individual preferences controlling. If some kind of shingle be used other than the regular creosoted wood shingles, it is suggested that shingles with a thickness approaching that of wood shingles be used rather than the very thin sheets that show no strong horizontal course lines.

HENRY H. SAYLOR.

The fireplace end of the living room, showing the dining bay at right. By using the old-fashioned table-settle shown, mealtime means merely the turning down of the table top, moving it a few feet into the bay and setting it from the china closet, just around the corner at right, and the pantry, only a step away through the swinging door

The Planting for Our One Story Garden Home

PROBABLY the most important advice a landscape architect can give the person who is starting to build a home in the suburbs or in the country is that which relates to the proper location of the house and garage on the lot. Unfortunately the value of this particular service is frequently overlooked completely, or brought to mind when the buildings are finished and it is too late to change their positions. A wrongly placed house or garage will not only often involve extra expense in the construction of unnecessarily long or steep roads and walks, but will in most cases prevent a satisfactory arrangement of gardens, lawns, and service areas, thereby wasting valuable ground. This is especially true where the lot is small, for it is then very important that the best use be made of every square foot.

Such a case is illustrated by the plot for the charming little Colonial bungalow designed by Mr. Saylor. This piece of land, one hundred and twenty five feet by sixty five feet, is indeed of minimum size for the suburban or country dweller, and we must conserve the space carefully in order to give him as large a garden as possible. With this in mind the house was placed to allow as much area as practical south of the end of the living room. Naturally we want our garden to be seen from this room, and especially from the large window at the end where one may sit in any weather and enjoy the picture which it frames. However, in placing the house there must also be sufficient room allowed for lawn between it and the sidewalk in front; just enough to give a satisfactory setting for the architecture and a certain amount of privacy.

Next the garage should be located. In this case the chief considerations were to get a short direct road, and therefore avoid expense and waste of ground, and also to keep it from intruding on the garden space. This meant of course that it would be somewhere quite near the house, and so it was decided to relate it directly and make the two buildings a single architectural composition. When the lines of the house and garage are harmonious, and a well designed connection, such as a trellis, fence, or wall exists, this solution of the garage problem is usually very satisfactory.

Back of the garage, and directly accessible from the kitchen door, is an area which suggests at once a most convenient drying yard. If this spot is made attractive as a lawn bordered with flowering shrubs, and is neatly kept, there is no reason why it would not be a pleasant outlook from the dining alcove. Clothes would probably not be out there at breakfast time or at dinner time, and so the utilitarian character of this space would seldom be apparent. The poles could be either removable or very unobtrusive.

COMING to the flower garden we find an area hedged in on all sides. The height of this barrier may be determined by the owner's desire for much or little privacy. Some of us like to let passers-by see into our gardens, others want to feel that they are as secluded in their out-of-doors living room as they are inside of their homes.

The general design of our garden is naturally simple, for it should be consistent with the type and size of the house. It has a touch of Colonial formality to bring it in sympathy with the spirit of the architecture with which it is associated. The walks were planned to make it easily and attractively accessible from both sides of the house, and to create a pleasing design within the garden. A gate creates a barrier against the "service area." Around the central grass panel are beds for perennials or Roses, and at the end a paved space, where one may have a bench, or bring a chair, for relaxation in the shade of spreading trees.

LOUTREL W. BRIGGS.

Bulb Flowers for the Summer Home

In the Newly Acquired Garden these Tender Flower-roots for Present Planting Will Solve Many a Problem

By Parker T. Barnes

Photographs by the J. Horace McFarland Co.

ONE fine thing about the summer flowering bulbs is that they do not require a tremendous amount of ground preparation, although the better the soil conditions the better the results. This is particularly true of Dahlias. To create a beautiful garden in the shortest possible time there is nothing that serves better than these summer flowering "bulbs as they are called for convenience." Of this great class Dahlias, Cannas, and Gladiolus are the best known.

Roots that can be planted now and give their flowers this year appeal particularly to the man who has just moved in. He arrived about May first—the common moving day—and ever since his evenings have been occupied with moving every piece of furniture on an average of once a week until the wife is satisfied. It is too late now to start annuals for midsummer bloom, and perennials are out of the question until another year, therefore the summer flower-roots are so very useful.

Barbaric in its gorgeousness Kniphofia was well called the Red-Hot-Poker plant. Can be had in various shades of orange to scarlet

DAHLIAS. There is a bewildering display of Dahlia varieties in any respectable catalogue, and no wonder, for they are multitudinous indeed. Prof. J. B. S. Norton, Botanist, of the Maryland Agricultural College and a Dahlia enthusiast, two or three years ago published a book listing 7,000 varieties of that popular flower and many have been introduced since. One can pay all kinds of prices too. It isn't at all uncommon for the fanciers to pay $15 to $25 for a single root, but this first year garden had better be made up mostly of the more common, older kinds that may be bought for a dollar or so. Some of the growers offer named collections at ten roots for $2.50 or $3.00, so no gardener need be without Dahlias on the excuse of cost. Three to four feet apart is close enough for Dahlia plants to stand, so a little money goes a long way to make a big show, particularly if the varieties are free blooming. In color the blooms vary from white through pink, yellow, gold, and bronze, red to deep maroon and lavender; but there are no good blues. Dig the ground deeply, fertilize well, working much tobacco dust into the soil, also potash fertilizers, and stake the plants. It is better to prevent the plants from blooming in midsummer. The early flowers are not good anyway, so pinch out the flower buds until midsummer.

It is really immaterial whether you buy field grown roots or rooted cuttings, for either will make fine plants. When field grown roots are used you get a single piece of root shaped like a sweet potato. When planting be sure to have the end with the bud "up." Yellowish leaves and stunted growth indicate "mosaic" or the "stunt" disease. Dig up such plants and burn. Insects, such as plant lice, are supposed to carry the disease from one plant to another.

CANNAS. In showiness these rank next to Dahlias, they are of no use as cut flowers, but for gorgeous displays in beds and borders all summer they are unexcelled; brilliant red, pink, yellow blooms on long spikes, the individual blooms often six inches across. The plants vary in height from about two feet to five or even six in case of the dark-foliaged sorts, which are particularly desirable when planting in large beds. These beds can be edged with some of the ornamental grasses, such as Pennisetum. Given good soil an plenty of moisture May set roots will bloon from July till frost. Because of the grea variety in color of both foliage and flowers ver many beautiful effects can be worked out Tropical effects are easily obtained when use in connection with Castor bean plants. Use the Castor beans for the background wit Cannas in front and th Grasses already mentioned, o the Elephants-ear (Caladium) For beds along the house o for hiding outbuildings this i a very desirable combination I refrain from naming the bes varieties because there are s many; but go to a specialis for the latest improvements.

Acidanthera, one of the lesser known bulbous flowers that can be planted now. It is handled like Gladiolus

Ornamental grasses make a fine support and lend an air of tropical luxuriance to the summer garden

GLADIOLUS. Of all the summer flowering bulbs the Gladiolus is preëminently the best for cutting, but as a garden decorative plant it can hardly be called a success. If grown in the garden, set the bulbs among other things, for the plants are rather long and

Ismene some years ago used to be better known than it is now, but is quite well worth growing. The flowers are three inches across, creamy white

enough, but they probably will not make any increase of bulbs, but the early planted ones will give sufficient increase to take care of next year's crop.

Like Dahlias the prices of the different varieties varies greatly. This is due to two things. New varieties cost more. I have seen some new varieties offered at such excessive prices that only plant breeders buy them. The other reason is that some varieties multiply so slowly that the number available is small.

Be sure to treat the bulbs before planting as described in the April GARDEN & HOME BUILDER, page 176, to insure against trouble and disappointment from scab and mites. The time of flowering of the different varieties varies; some bloom in 90 days after planting; others require 120 days.

PEONIES. Every spring one finds Peony roots on sale at the seedsmen's stores. Spring is not the best time to set out Peonies but good strong roots will sometimes give a good bloom the first year. They should be put in the ground just as soon as possible in rich earth free from fresh manure. Surround the roots with sand to provide good drainage and reduce trouble from rots.

IRIS. The Japanese Iris is not a bulb,

Tritonia in which there are many hybrid forms ranging in tones of orange and scarlet. It can be handled like Gladiolus

spindly. The best method of growing them is in rows in the vegetable garden, the same as Corn and Beans. Make successive plantings about two weeks apart from the time that Corn is first planted until some time in July or even August first, depending upon how far south you are. In Florida they grow them pretty nearly all the year round. The late planted ones may bloom if the season is long

technically speaking, but it is sold as such. May, in some localities, is perhaps a little late to plant, still if given good soil and an abundance of moisture they will produce a very satisfactory display of blooms in midsummer. In color they are superb. None of the Iris family exceed them in interest or in the size of their flowers. Personally, I prefer the blues and whites.

(*Continued on page 304*)

A modern Canna is something very different from the original Indian Shot. Today's varieties have flowers as large as a man's hand and the range of colors is from red through pink to even white and to orange and yellow. The best sub-tropical plant for popular use (above)

Summer Hyacinth (Galtonia) carries spikes two and a half feet high, laden with white bells (left)

Of course, the Iris is well known. The Japanese flowering type here shown at right is particularly pleasing in the garden

Home-Making Walls

Quaint and of restful simplicity is this old time wallpaper that harmoniously carries out the characteristic Colonial atmosphere of the room

Wallpapers that Lend Color and Cheer to Dark Rooms—Fine Texture and Unusual Designs

Ellen D. Wangner

Photographs by Mattie Edwards Hewitt and by courtesy of Metropolitan Museum of Art, Richard E. Thibaut, Wallpaper Mfrs. Assn., The Robert Graves Co., Baeck Wallpaper Co., Thomas Strahan Co., Nancy McClelland Inc., Lord & Taylor.

THERE is a wholesome spirit of discontent disturbing the average home-maker to-day as she looks at the decorations of her house. Something is decidedly wrong with her particular home-picture. More often than not, she is finding the answer to this problem in the one word "color," plus lack of realization of the importance of the walls of her house in the whole scheme of furnishing.

A wall should serve one of two purposes, either as a subdued background for the furniture or as a definite part of the decoration of the room. It should never be just a wall, a partition between rooms. In the past, too often that has been its status. Like the floor and trim, it was something specified by the architect and put in by the contractor.

Because of the present healthy dissatisfaction among home-makers, the value of the

For a small hall this type of scenic paper with its rather small motif is particularly pleasing

From the earliest days of good wall decorations papers of this type with their purposeful drawing have been recognized as of distinct decorative value

A modern copy of an old French paper developed in the Chinese mode, holding all the old time qualities of grace and delicacy of design

wall is being understood. We know that with the right color and the proper treatment, a wall can make a small room look larger and bring a fine sense of cosiness to the too-large room. It can unify conflicting features of a room and bring sunlight and an atmosphere of comfort and charm that bespeaks hospitality. Because of this understanding of color and walls, a change is definitely taking place in the treatment of the modern home. Gone are the dull browns, the somber tones that could only cause depression of spirit. In their place, we have definite color schemes, and we know what we are doing in choosing these colors. We realize their effect on our health and happiness and state of mind. We know that we need these cheery colors that not only live happily together but that can make the inmates of the house do the same. This does not mean the use of startling, gaudy colors or bizarre designs. Gaiety can be expressed in subdued as well as in bold tones.

Quite in keeping with the Colonial spirit of this room are the plain walls with borders in color around windows and doors

THERE are several ways of bringing color to the wall, each making an attractive finish. But for the average home no method proves more satisfactory than does wallpaper. We can go to the shops and have spread out before us papers especially designed to suit all styles of rooms, all exposures and lighting. We can take huge samples of this paper home with us to test out in the home-lights, to line up beside trim, draperies and pieces of furniture. Another factor in favor of wallpaper is that it can be put on successfully by the veriest amateur if necessary. If one wishes to purchase new hangings to perfect the decorative plan, these fabrics may now be found right in the paper-store itself, fabrics selected by experts to blend with or lend accent to whatever paper is chosen.

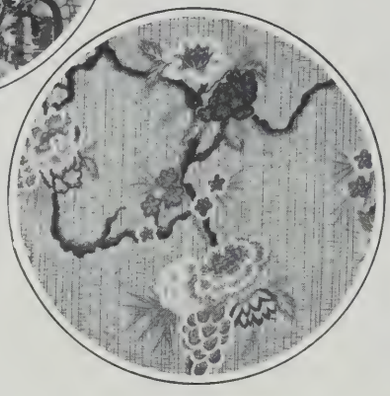
These modern papers come in exquisite designs, colors, and texture and at small cost. The hand-blocked papers of another century have been so carefully studied by the paper artisan of to-day that he is actually reproducing their velvety texture, their unusual patterns and tones and that at a price to bring them within reach of the modest purse. Once to have hand-blocked paper meant the outlay of a small fortune. To-day in our own land inexpensive hand-blocked papers are being manufactured of excellent quality, each with its own narrow border on which the colors have been applied by hand, holding all the beauty of a brocaded velvet.

Panelled rooms require vigorous coloring and definite design for their paper inserts—a fact recognized in this dining room at the home of Mrs. Louis Ranger, New York City, where the panels are in yellow

IN SELECTING the paper, its color and design for any room, not only should that room be carefully studied but the adjacent rooms as well so that as one steps through the entrance of the home, a harmonious picture is presented. Many houses look like a patchwork quilt. Especially in this true in the small suburban type of house where living room, hall, and dining room are actually, in each case, part of the other rooms. While each room serves a different purpose in this first floor, various tones and shades of the same color or complementary colors, should be used so that as the eye travels from wall to wall, there is no sense of abrupt break.

Before choosing paper for any room, its size and exposure should be considered, also. Is it a dark room shaded by veranda or trees? What style is its furniture? This is important, for the history of wallpaper closely follows that of various periods in both architecture and furniture. This should control in great measure the choice of paper for any room where the furniture is of a given period or type.

In the matter of color, there are a few simple rules that apply to every form of decoration, but particularly to wallpaper. Colors are divided into two classes, warm and cool. Blues and violets, greens and grays are cool colors; yellow, orange, and red, with their varying shades, are warm colors. The use of either class depends on the location and lighting of the room. The warm colors bring sparkle and brightness to a dark room. Sunshine, that coveted cheer-maker, can be lifted bodily by means of color into any room shaded too much or located on the north side of the house. Very strong, dark colors and large designs decrease the apparent size of the room, while light and dull tones seem to



The two papers at the left and the top one at right show clearly the tendency in modern design toward irregular curves and openness of figures all reproduced in colors of brilliance and force. The lower right paper is particularly suitable for a hall

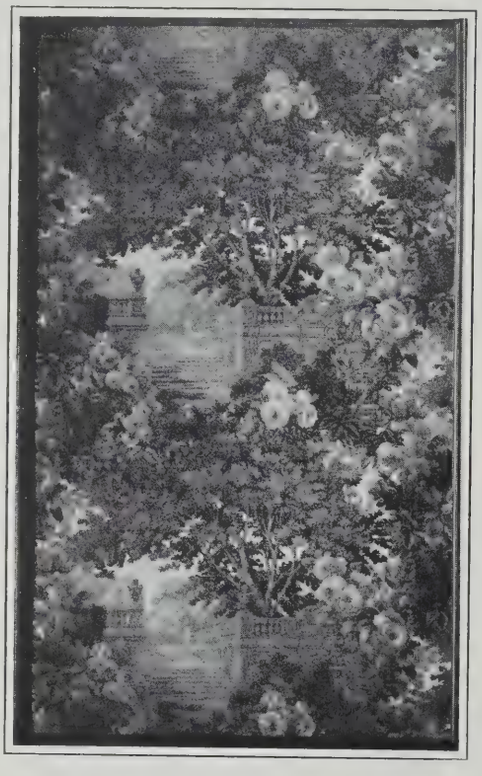
increase its size, as do also the scenic papers by suggesting vistas and space.

WHEN selecting wallpapers, it is highly important to get those of good quality. The making of such papers has been lifted out of a purely commercial plane and put on that of art. These artist-craftsmen have so carefully studied the design, so skilfully blended the colors that such papers may be used as the basis for the complementary coloring of the room. There will not be found jarring discord or a false note, and the decorator, whether amateur or professional can, by studying her choice of paper, find in it the very shades she should select for her draperies, upholstery, rugs, and even for the floors.

Where the home is new and new furnishings are to be purchased, the woodwork to be colored as wished, this is an easy task, but in the majority of cases they are not new and there are certain fixed factors that must be allowed for. The woodwork, for instance, is not to be done over, it must stand. A certain rug *must* be used, while the furniture is very apt to be the average accumulation of the average home. What then?

In such case, the best papers to use are those now offered in subdued tone and design as to suggest the time-mellowed beauty of old velvet and tapestry. We then depend for our gay color emphasis on one or two good ornaments, a vase, a screen or desk, a red lacquer chest or, possibly, some wall niche that may be papered to bring cheer to a whole room. The use of alcoves for books, china or unusual bric-a-brac, is, fortunately, a growing one. To paper such a niche there are brilliant lacquer-papers that are as decorative and colorful as some rare tapestry. Such papers may also be used with good effect to cover tall, three-leafed screens. When varnished, they have the enduring beauty of metal and all the rich colorings of the Orient to lend to any dark hall or corner or even to a whole room just the color note needed.

Where pictures are to be used on any wall, it is an understood law that only a plain paper be used, except in one other case which we will mention later. Where the paper is to act as a background for furniture, no large, showy design should ever be used as such a paper impresses its strong personality on the room and becomes the main decoration. Nor does this mean that only a plain paper can be used. Select one of the papers where there is a soft blending of both design and color.



Scenic paper such as this is particularly pleasing because of the fine play of light and shade

WHEN the woodwork must remain "as is" and it is desired to make it as inconspicuous as possible, it must be remembered that a contrasting wall color would only make it stand out the more. For instance, if the woodwork be of a brown tone, whether light or dark, paper in shades of cream or tan will subdue it; blue or violet on the other hand would bring it prominently into the picture. Where the woodwork is new, it is becoming more and more general to color it in harmony with the walls and thus get away from the always-to-be-found white enamel or dark tones.

With the woodwork and color of walls decided upon, comes the matter of furniture, size, use and lighting of the room to be considered. If it is a wide Colonial hall or room, nothing could be more suitable than one of the old-time scenic papers or one of Chinese inspiration, always using such papers above a dado so that they will not run down below the line of chairs or table. Is the hall dark and

(*Continued on page 302*)

An 18th Century landscape paper eminently fitted to the spacious walls of Colonial homes and which is being reproduced in good design and color for modern walls

Brilliant with red and yellow Gaillardias and gaily colored Petunias is this Santa Fe garden of Mr. M. H. A. Wangerien

Gardens of Old Santa Fe

Constance Johnson

WHEN I spoke of the flowers in New Mexico my friends back East, poor provincial creatures, exclaimed in derision, "There's nothing there but Sagebrush, Cactus and sand!"

But they have never seen the beauty of a field of Sagebrush, or known the glory of a tall branched Cactus in full purple or yellow blossom. Much has been written about the Cactus, with its many varieties, ranging from Prickly-Pear to the exquisite white blossomed Maguey; and as for the much scorned Sagebrush, which often is not "sage" at all but the taller lighter green *chemiso*, it is a rare sheet of color blanketing the earth, especially when its delicate flower is in bloom. Up in the New Mexican cañons there is a profusion of wild flowers, crimson, lavendar, yellow, white. Great clumps of magenta Four-o'-clocks, and fields of Goldenrod glorify the plains. Indeed the government has issued a 700-page volume in fine type, describing the flora of this state, which is so often igorantly referred to as a desert.

But it is the cultivated flowers in the formal gardens of Santa Fe which I wish to extol, about which our friends are so sceptical.

Let me say at the start that almost anything can be grown in Santa Fe, with the exception of tropical plants, for which the climate at this 7000 ft. altitude is too cold. The gardens are usually so arranged as to gain protection from the warm brick of houses and garden walls, and at the same time the masses of color gain for a background the flat brown tints of the adobe, universally used for building. Hollyhocks flourish here and grow taller and more exquisite in this dry air. Poppies, Cornflowers, Pansies, Cosmos, Tiger Lilies, Nasturtiums, Gaillardia, Snapdragon, Sweet-peas, Roses—all thrive and grow together in opulent profusion.

When we first visited Santa Fe, the city was suffering from a three-years' dry spell, a visitation that occurs now and then, though seldom of such duration. The use of the garden hose was permitted only during one hour of one day each week by the city authorities. Think of that in a land of persistent sunshine! A lawn-mower seemed the fantastic dream of a confirmed optimist, and fine brown dust was deep along the streets. The great Locust tree, and I have never seen a larger or lovelier specimen, drooped in front of our adobe house, and the Apricot orchard beside us looked pathetically thirsty. But the flowers in our neighbor's yard were gay and flourishing. The Hollyhocks—every garden in Santa Fe has them—were tall and straight and there was no sign of rust upon them.

WHAT have you done to your garden?" I asked; "Have you a private water supply?" "I wish I could afford it!" she answered. "Many of the wealthier residents have their own wells, and pump water into

cement or earthen irrigation cisterns, which also serve as swimming pools for their lucky owners. Some even have elaborate underground piping systems. But my source of supply is a humbler one. I use my bath water, after I am through with it, and all the dish water, and even the water from the pan under the icebox. That helps a lot. Then once a week for a glorious hour I use the hose. And I'll tell you a secret about my garden. This place used to be a stable, and generations of horses and burros have fertilized the ground so that my flowers simply have to grow. I have Sweet Corn here too, and Peas and Squash!" As if to prove that the stable incident was not entirely past history, a bay riding horse poked his nose over the bars of the corral gate and nickered at us.

The corner garden of the three room adobe house of Miss M. F. Winneck, Santa Fe, where Nasturtiums, Hollyhocks, Iris, Cosmos and Columbine grow in colorful confusion

Garden along the wall of a terrace with the old well and patio at the home of Mr. Sheldon Parsons at Santa Fe

"Of course we have to cultivate and cultivate, and sometimes we mix humus in with the clay earth, or the ground would bake too hard. Only the people who have plenty of hired help try to maintain big gardens. But the qualities of soil and sun are perfect for flowers, and only water is needed to make things grow while you watch them—the way they do in California," she added with a grin. "Lawns are rare during such dry seasons, and most people simply give them up when it doesn't rain, or when the use of water is curtailed. But there are some fine lawns that are always kept up in Santa Fe, such as the wide expanse about the state capitol and other public buildings."

I felt sure that my informant was right about the lawns, for I had almost wept over the parched and yellow spears of what had once been grass in front of our own residence. "Well," I said, thinking aloud, "if there were more water this dramatically lovely country would be filled with factories; adobe houses would be turned into brick tenements, and the Board of Health would not allow horses and picturesque burros in the yards to fertilize the garden soil. This may come ungracefully from one who enjoys the fruit of the factory without working for it. But I am glad that New Mexico does not tempt that sort of exploitation just yet, and that one can not run a factory on the water power from intermittent heavy rainstorms, or from rivers that start up suddenly in response to a small cloud-burst, run for a while torrentially, and then vanish."

I never really knew the meaning of the term "local showers" until we came here. The gardens in one part of town may be crying for water, and a mile or so away the rain may be washing out the roads and filling the irrigation ditches to overflowing. Rain in New Mexico is like the genie of an Arabian tale; it works with inconceivable rapidity and effectiveness. The whole country where it falls seems to turn green in one day, and the flowers grow several inches overnight, I am sure, when the rainy season begins. The dry sand becomes clovered lawn; and it is a joy to see the Corn, which in this state is literally the bread of life to so many, shoot up after a few showers.

I had tea in a friend's covered patio one pleasant afternoon. The adobe wall which separated us from the neighbors was background for Hollyhocks and Cosmos; a little path led from us to a square patch of garden brilliant with Bachelor's-buttons, Snapdragon, and all of the low-growing rich bloom one might find in a New England flower bed; and beyond on the back wall an almost Pompeian fresco gave a splendid flash of blue color. Above and beyond that were the mountain tops, and then a sky that outshone the blue of the painting. I thought of what my friends in the East had guessed about this corner of the Southwest, and I sighed contentedly, as a kitten might purr over a blue dish of perfect cream.

Attractively planted entrance to the court and corral of Miss M. F. Winneck's home, Santa Fe. Here again sturdy Hollyhocks supply much of the color and greenery

The "hobby shop," designed by the owners themselves, is made largely of old materials and the effect is of mellowness and age. The ax-hewn beams and window frames, H & L hinges and appropriate furnishings carry into the interior the same sense of comfortable antiquity and permanency

A quaint path leads to the stone terrace of old pavement bricks in which is cemented an antique wrought-iron footscraper. The door of adzed cypress planks held together with hand-wrought nails boasts strap hinges and a huge wooden lock

Getting Antique Atmosphere Into a Garden House

Elizabeth N. Ewing

HAVE you ever longed for a shop—a work shop, a "hobby" shop, a quiet retreat where you can work out your own pet schemes of carpentering, or painting, or tinkering with dear-knows-what? Or do you want a spot in which to read and meditate, a sanctuary where you may escape the family hubbub?

The beginning of our shop came on a fine Saturday afternoon. The Man of the House, working about in the garden, found the Boy of the House making a boat in the kitchen yard, and a doll-house being built on the front porch by a Daughter of the House. We talked again of the often-wished-for workshop. This time we told ourselves that we *must have* a shop, and (all talking on the same side of the argument) began to plan for it in earnest.

Certain main principles were very clear. If built at all, either now or ten years from now, it must have a simple substantial beauty. As we all love old buildings, it must look old and mellow. It must be practical for many sorts of work. Lastly, it must be partly built by us, for economy and for a real feeling of ownership.

As the plans progressed, our trips to the country became searches for materials, particularly for old barns that were being torn down. The owners of several such barns, within a few miles of home, sold us splendid old ax-hewn beams. A quaint old part of Philadelphia was being wrecked for the approaches to the new Delaware Bridge, and here the Man of the House found the H & L hinges for the windows, in a pile of burning trash. If one searches for materials oneself, the finished building will have an added charm for its owners.

We planned and designed it in every detail ourselves, for with an architect, however lenient, we should have missed the fun of visualizing it, and the excitement of seeing our shop no longer "the stuff that dreams are made of" but solid stones and timbers.

We roofed it ourselves, hung the windows, made the door and a good sturdy workbench under the double casement windows. All these bits of carpentry were such fun and decidedly lessened the cost. The thick stone walls have an outer coating of mortar through which stones show here and there.

The window frames were either made from the treasured hand-hewn timbers or were bought intact, with their shutters still swinging on old strap hinges.

Before we go inside, please look at the terrace. On a carefully laid cinder foundation with a low wall, we laid old pavement bricks and set an old footscraper. On top of these was spread a *dry* mixture of sand and cement. This was swept into and then washed into the wide joints of the bricks. This method of laying

(*Continued on page 296*)

Retaining wall, balustrade and steps are the beauty features accenting the difference in the two elevations in the George E. Cranmer garden, Denver, Colorado—features which could not have been built here without the difference in two sections of the garden

Earth in the

By Arthur H. Carhart

RELATIVELY little consideration has been given to the importance of earth as a part of a garden's design. Almost invariably the garden owner or devotee thinks of soil in terms of growing things and cultural requirements, and it is rare indeed that any one but a well trained designer gives any considerable thought to the form of the earth on the home grounds. Garden earth should be of more importance in the garden than a mere medium for plant growth. It should be made a part of the basic garden design.

As a rule the earth forms around the home are approximately level planes. People in using the areas contiguous to a home must walk over these surfaces to use them. It is necessary to have them either nearly level or gently rolling so walking can be easily negotiated. While there may be differences in elevations between areas near the home, each area must approach levelness as would be found in a series of terraces. Thus each area may be made more usable.

Where there are reasonable differences in elevation in a home grounds there is usually a splendid opportunity to produce many striking effects with steps or ramps leading from one level to another. There is often a tendency to try to level grounds near the home to one plane or nearly one level. Great fills are often undertaken to bring this about. But in doing so no regard has been given the value of earth forms in producing a more pleasing design than would be possible on level ground. By such leveling, opportunities for distinctive gardens far surpassing any garden built on one level are often lost. Even where a home is built on an abrupt slope, so steep no nearly level garden areas are feasible, it is possible to work out plans for a garden which will surpass the beauty found in most level home grounds. In such a garden the ground forms are a major part of the design—the very essence of the hillside garden scheme.

Beyond the more highly developed garden areas farther away from the home, if the grounds are large, there is generally an opportunity for abrupt sloping hillsides of natural form, breaks in topography with naturalistic rocky outcroppings where wild gardens may cuddle under the shelter of stone strata. In estates and parks some of the most pleasing effects may be found in the very basic portion of design which has to do with such ground forms. The differences in ground levels near the house may be either formal or in the natural style, but in the broader areas of parks and large estates differences in elevation usually are taken care of on naturalistic slopes.

MAKING SMALL PLOTS LOOK BIGGER

THE owner of a small home must not think that this study of ground forms is limited to the wide public parks and to the broad estates of the wealthy. If he does, he is blind to the possibilities of his small plot of ground. Feet count in elevation differences in park or estate levels, inches count in the ground form design on the small home place.

In a section of Denver where houses crouch close to each other, where the average home grounds is not much more than a hundred by a hundred and twenty feet there is a garden which appears to the beholder to be at least as big as a whole pair of city lots. It cannot be more than forty by sixty-five feet. That tiny garden is built on two levels. The secret of the garden's beauty is in the design of earth forms of the little terrace sloping into the central panel, where, like a jewel, there is a tiny brick pool. The secret of design which makes that garden appear much larger than it is, is wrapped up in the design of its earth forms combined with this very little drop of ten inches between upper and lower earth levels. This seems much more of a drop than ten inches because there is a well studied consideration of scale. Everything in the garden is built to a small scale. The pool is not five feet across, but it suggests that it is at least eight or ten feet in diameter. The plantings are "scaled down" and thereby lend their aid in producing the effect of a much larger garden. But if the difference in elevation between

No wider than a large living room this small garden gives an effect of size due to the effective planting of the two levels

Garden Design

It is the Universal Quantity but Too Often Considered Only as a Cultural Medium

No level ground could give the interest found in this slope on the grounds of the A. E. Humphreys, Sr., home at Denver

those two levels of this garden were lacking, all the scaling down of the garden would not be nearly so effective. The earth design of this little garden is its greatest beauty secret.

RELATION TO STREET LEVELS

THERE are other places besides the living garden where it is important to give consideration to the design of earth forms surrounding the small home place. Often the house is somewhat above the level of the street sidewalk. It is always a problem as to how this expanse of earth between house and street sidewalk may be handled so as to produce a pleasing effect without incurring some considerable cost or producing ugliness.

The several levels held by retaining walls, reached by steps in ascending series, form the basis of interest found in this garden at the home of Mr. John Evans, Denver. Willows on the upper level to the right, a Russian Olive in the background, Poplars to the left, with a tangle of deciduous plants, are successfully combined

One old method was to bring the level lawn to some point near the walk and then slope abruptly on a flat inclined surface to the walk. If the terrace was too high to do this in one slope the terrace builder would do it in two terraces, each flat-surfaced, each sharply angled to the place of lawn above. Both systems were productive of "neat" terraces but not very pleasing earth forms.

If the house is high above the street, a retaining wall is often built at considerable cost and earth filled behind that until it is somewhere near the ground level at the base of the house. A retaining wall may be made a very pleasing feature or may be ugly. It is costly under any circumstances. Whether relatively cheap or costly it is a part of the ground form design of your home grounds.

GRADING AND TERRACING

GOOD grading will often eliminate sharp-edged terraces and retaining walls and produce pleasing ground forms in front of the home even if the house is high above the street. But to do this there must be good design in the grading. It cannot be over stressed that good design for the whole garden and home grounds begins in the good design of such basic portions of the garden as the earth forms.

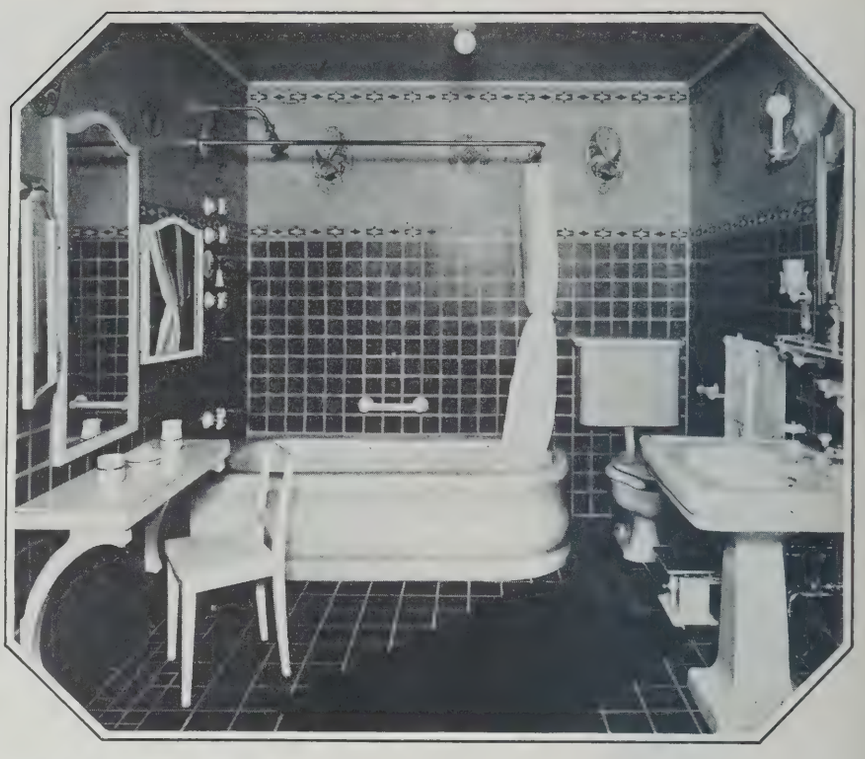
Earth forms determine drainage of surface waters. No one would slope grounds toward the house thus putting it in a dished lawn. The basement would be filled with water with such ground form whenever it rained. But often little more attention than this is given to the slopes of ground in the garden and yard. Drainage over the whole home grounds is one of the facts one must face when designing ground forms.

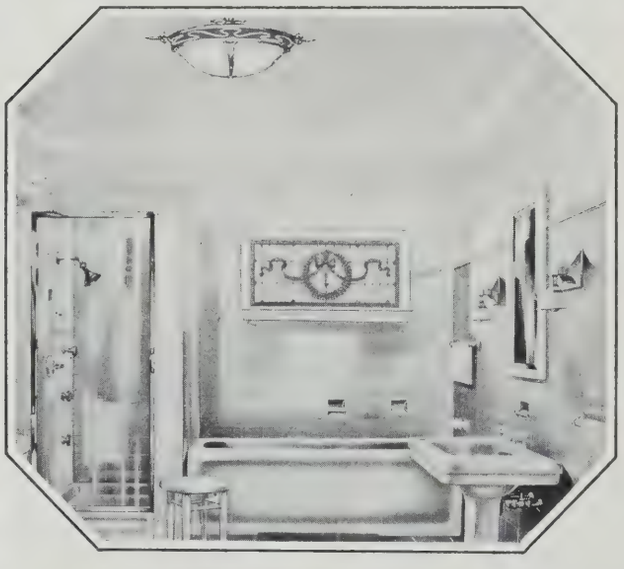
When you start to plan your garden, start not with thoughts of the beauty of the flower blooms that are to thrive there. Think first of the more elementary, basic things. Think of the foundation features such as general garden plan, the lines of the garden, the mass, form and other elements of design. And in thinking thus of the primary features of garden making, think of the ground form of the garden, and home grounds.

Consider yourself a sculptor that is molding a plastic base on which will rise the form of some beautiful bit of art, composed of house, yard, and garden. You may desire a garden, oval in shape that might be either level or slightly dished or slightly rounded. You must select one of those three forms for the grass panel in any garden.

Suppose you select the slightly dished form. Then you must consider the depth of the dishing. Will it be just enough to baffle the eye giving a barely discernible form of beauty to that grass panel or will this slight concave form be more easily detected? And where will you take the drainage if you adopt this form? Such are the types of questions that go with the moulding of ground forms in the homegrounds.

Take it as a fact that the more difference you have in elevation in the garden or even the more difference in elevation you may secure between the several parts, the more interest may be developed in studious designing of the garden earth forms on which will rest structures or where flowers will blossom. Garden earth forms and their design are a basic consideration in good garden planning.

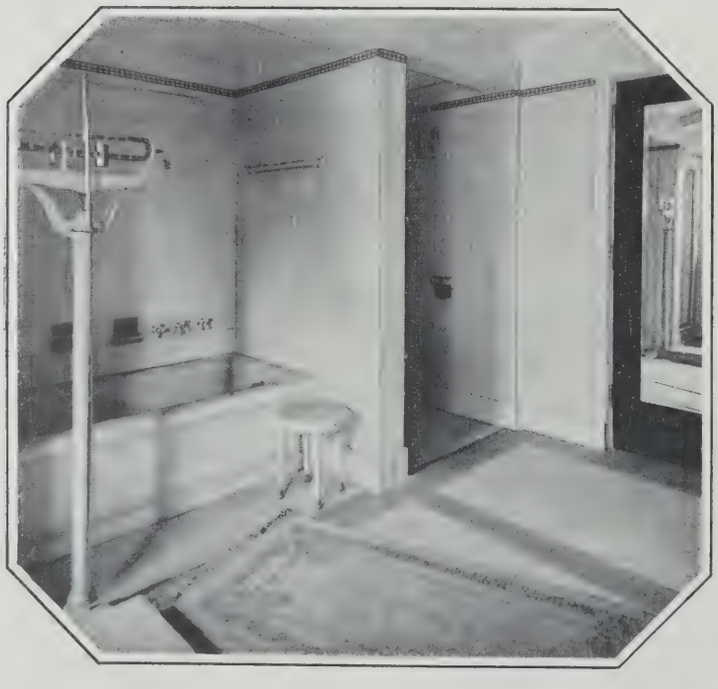




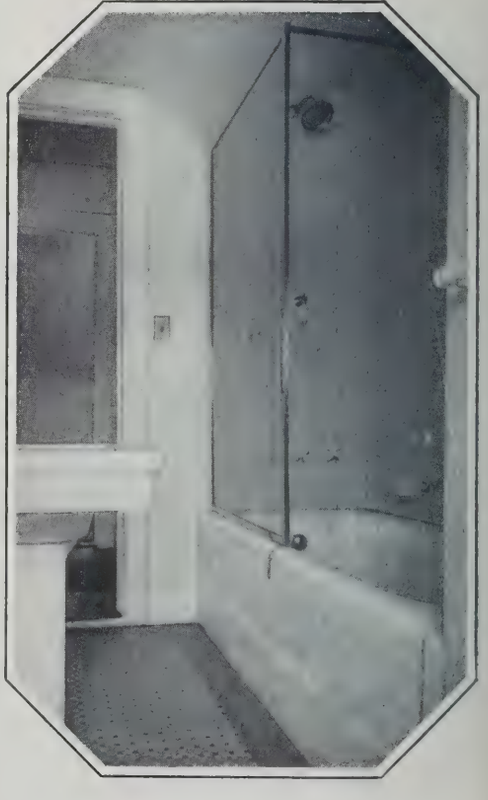
The Luxury of Colo

Photographs by Mattie Edwards Hewitt and by courtesy of the Speakman Co.,

EASILY one of the most decorative rooms in the house is the modern bathroom, if color and comfort be considered as well as sanitation. Tiles for walls and floors, plaster, and wall paper are now carefully designed and produced in color for the bathroom to bring cheer



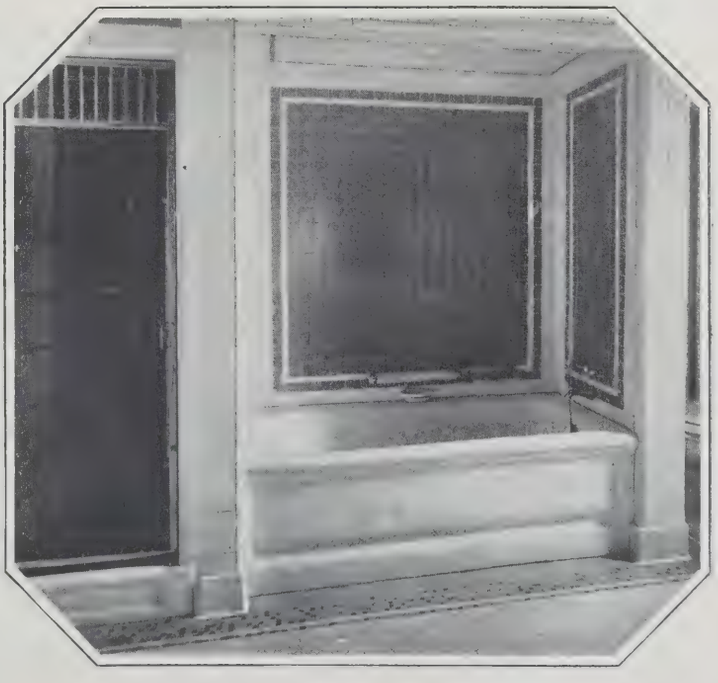
Tiles of floor and wall, as well as the rug, lend the charm of color to the spacious bathroom on the left; at the right the glass enclosed shower and tub is a unique appurtenance



the Bathroom

Associated Tile Mfrs., Sanitary Standard Mfg. Co., The Vitrolite Co.

and individuality to the room. Beauty need no longer stop at the threshold of this room but may step boldly across it by way of well-appointed dressing table, colorful walls, curtains and rugs to make of bathing a pleasant luxury rather than merely a hygienic necessity.



The tiled tub, floor and panelled walls (left) and (right) the enclosed shower with decoratively tiled border and panels add color and distinction to these bathrooms

Gardening in Oklahoma

By
H. Hutchinson
Landscape Architect

The rear planting at the home of Mr. H. G. Olmstead, Oklahoma City, is as attractive as that around the front entrance. The skilful placing of the Lombardy Poplar accents the line of the house

Triumphs of a Region Where Northern Cold and Southern Warmth Blend Genially

A FEW years ago the homes in the cities of Oklahoma were practically without outside decoration so far as horticulture was concerned. This was due to the newness of the state and to the fact that on first acquaintance the climate did not seem congenial to ornamental shrubs and herbaceous flowers, which resulted in the people planting very little beside Bridal-wreath, and a few equally common shrubs.

During the last few years the larger cities of Oklahoma have fallen in line with the general spirit of "better living" until now a home that is not landscaped is rarely seen, and the small homeowner is, if anything, the more enthusiastic; furthermore he is not content with shrubs and flowers planted at random, but generally employs a landscape architect. The climate is in fact very favorable. A planting in one year is as far advanced as the same planting would be in two years in our Northern states, because of a long growing season. This season begins about the first of March and lasts until about the fifteenth of November, in fact on Christmas Day last year Roses were flowering in many of the gardens in Oklahoma City.

Another important fact, which adds to the spick and span appearance of the grounds in the Southwest, is the fact that the Bermuda grass used for lawns even in the hot days of August retains its green velvet-like beauty with the application of very little water. In fact about half the sprinkling is needed that is required for Bluegrass in Missouri or Illinois. Bermuda grass has one big drawback, in that it turns brown in winter. However, the period of that condition can be curtailed by the application of rough fertilizer in January. This will prevent the freezing out of the grass, as sometimes happens in a very severe winter, and at the same time it will make the lawn green much earlier than it would be if left unprotected. Bermuda grass is generally planted by sprigging, the sprigs being planted about twelve inches apart. The sprigging is done from about the middle of April until the middle of September. Bermuda grass grows the most during the hottest weather, and with sprinkling nearly every day on a new lawn, runners from the sprigs will soon be produced and in thirty days the grass will be matted.

OWING to the fact that the soil in Oklahoma, and especially in Oklahoma City, is of a moisture holding nature, much less watering is required than appearances seem to indicate. With careful cultivation the day after watering, it is not necessary to water more than twice a week. In Oklahoma City the water was practically cut off during August about two years ago, and even then scarcely a plant died in the city. A few varieties of shrubs lost their leaves, but they all came out, as beautiful as ever, with the fall rains which come in October. In certain parts of Illinois, landscape gardeners shade newly planted evergreens. This is necessary because the general soil has little moisture retaining quality. In Oklahoma evergreens thrive during the hottest months, and without any protection from the sun. This practically proves that for the Southwest evergreens are best grown in a soil with a clay subsoil. It is even better if all the soil is of a clay formation. If we plant the evergreens in black soil the specimens become thin and burnt up. Our climate has one drawback, however, with regard to evergreens, and it is that in midwinter we have sudden changes in weather conditions—warm one day, and very cold the next. As a result some evergreens, and especially Chinese Arborvitaes, will turn brown. This, however, can be remedied to a great extent by a good sprinkling of the foliage after the freezing spell. This checks the action of the sun's rays on the frozen foliage.

How the sun's heat may be counteracted has been recently discovered in connection

with an attempt to grow English Ivy. Several attempts had been made to grow the Ivy in Oklahoma City, and, although we knew it to be hardy, all attempts to make it cover a brick house failed. It would cover the ground and form a carpet, but nothing more. One season the owner of a beautiful brick home, who already had his walls covered with Boston Ivy (Ampelopsis veitchi) thought he would plant a few sprigs of English Ivy. Next year the result was astounding; the English Ivy covered the Boston Ivy so quickly that in two seasons the walls of the house were covered. This is undoubtedly due to the fact that the wood and leaves of the Boston Ivy cooled the bricks and mortar to such an extent that the Ivy readily took hold and developed. The Boston Ivy also formed a support or natural trellis for the English Ivy. In time, of course, the English kills the Boston Ivy, but by that time the foliage of the English Ivy is its own protection against the hot rays of the sun. Any one desiring English Ivy in the Southwest should plant the Boston Ivy two years ahead of the English Ivy.

IN GENERAL planting in Oklahoma a unique condition exists: we are the dividing line, as far as flora is concerned, between North and South. We can grow the Colorado Blue Spruce of the North with the Deodar Cedar of the South. We can grow all the Northern evergreens, with the exception of American Arborvitae, with the beautiful forms of Chinese Arborvitae of the South. Even the tall stately Italian Cypress grows rapidly and stands both the heat and the cold. In deciduous shrubs, the Crapemyrtle of the South can be grouped with the shrubs of the North. This is important as it gives some wonderful fall flowering effects. The beautiful evergreen shrubs of the South, such as Euonymus japonicus and its varieties, Ligustrum japonica and the variety aurea variegata, and Ligustrum lucidum can be used in a landscape way to group the evergreens from northern states As an edging plant, we use the Santalina chamaecyparissis, which we find very useful for bordering shrubbery, hardy flower borders, and rose gardens, as it is perfectly hardy and is beautiful in winter. For formal effects, this border plant can be sheared, and it rapidly develops into a permanent hedge-like form, and is better than the Boxwood for this climate.

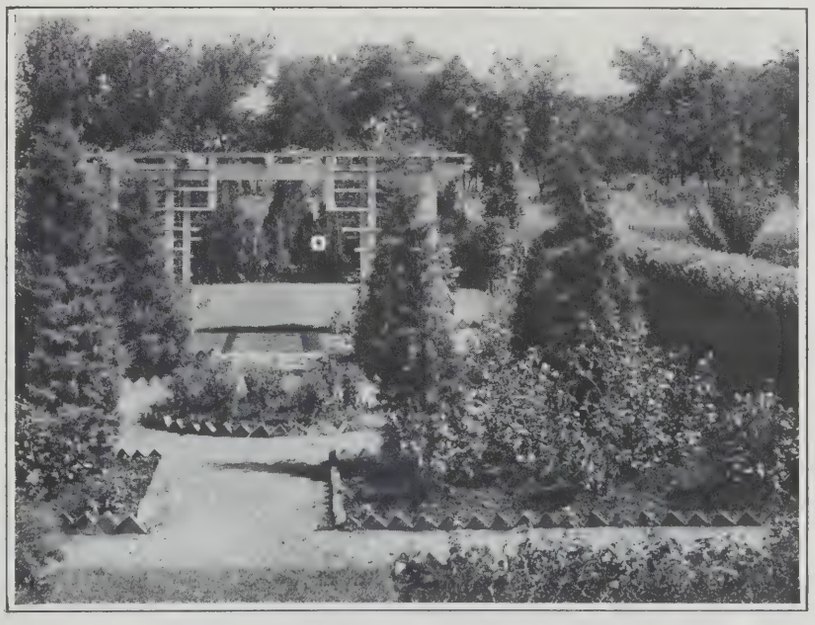
Hardy flowers are most successful in this climate if planted in the fall, the ideal months being October and November. Planting at that time enables them to root during the fall growing period, and gives them a better chance when the hot weather comes in spring. It is also better to give them a mulch after the first severe freeze. This prevents them from heaving out of the ground when it freezes and thaws during the cold and warm weather which we are subject to during the winter. Owing to strong winds in the Southwest, it is advisable to stake the taller growing varieties, such as Anchusa italica; and also Peonies. Hardy perennials and biennials do not do quite as well as in a cooler climate, with the exception of a few kinds—Hardy Pinks, Peonies, Phlox, Chrysanthemums, Liatris spicata, Hosta subcordata, Hibiscus, Phlox subulata, Achillea The Pearl, Baby's-breath, Coreopsis, Sweet-william, Shasta Daisy, Yucca, Gaillardia, and Iris. Such hardy flowers as Delphinium, Myosotis (Forget-me-nots), Foxglove, and Pyrethrum, must have especially located shady places. At all times hardy flower borders need careful attention in this climate. This does not mean so much watering, but rather intensive cultivation, and a little light mulch during July and August.

A 40 x 140 ft. lot the second year after planting, attached to the winning bungalow in the Small Home Class in the Town Beautiful Contest. Residence of Mrs. R. F. J. Williams, Oklahoma City

FOR shade or street trees, we find that the American Elm, Silver Maple, Sycamore, Hackberry American Ash, and non-bearing Mulberry are the best. The two latter are practically free from insect pests or fungi. The American Elm has to be carefully watched for borers, and the soft Maple while young is subject to scalding, or peeling off of the bark. This scalding can be prevented by wrapping the stem of the young tree with burlap until the tree is well established. Bag worms take their yearly toll of foliage during the hot months, and to remedy this situation practically all shade trees must be sprayed in anticipation.

The smallness of the city lots is the handicap of the landscape design problem in the Southwest. The average size of lots for bungalows and small dwellings is about 50 x 140 feet, and for larger homes 75 to 100 feet by 150. These lots are generally rectangular in shape, and they create a little monotony in landscape arrangement. As a result the home owner is abolishing the vegetable garden in his rear yard, and devoting the entire area to the development of aesthetic gardening. This back yard garden is rapidly becoming an outdoor living room, and in place of the fruit trees, and vegetables of a few years ago, we now find beautiful miniature rose gardens, and small lawns with marginal planting of trees, shrubs, hardy flowers and bulbs, with perhaps some garden furniture, pool, or pergola. Due to the fact that garden clubs are being formed all over the state, the garden party is rapidly becoming

(*Continued on page 298*)



The rear yard of the home of Mr. J. Valberg, Oklahoma City. This garden won first prize in Class B Homes in the Town Club Garden Contest. The garden is built on a space 30 x 50 ft., and is on an axis from the porch

Tender Vegetables in Midsummer

Quite Possible if You Sow Right Type, Not Otherwise

By Adolph Kruhm

Defeat drought by constant cultivation. A July garden in full glory

DON'T sow May King Lettuce; neither should you sow Rapid Red, French Breakfast, Hailstone, or any other early Radishes or, for that matter, any *early* member of the entire Brassica family. "But why this sudden turning against all these varieties previously so highly recommended," will be asked by the reader? And thereon hangs this tale.

The entire problem of tasty vegetables from your midsummer garden can be solved only by studying the fundamental requirements of the various classes and the different varieties available within these classes. Consider, first, that 75 per cent. of our popular vegetables are primarily children of the cool and temperate zones. Their two principal requirements are *cool weather* and a *reasonable amount of moisture*. Then go back in your memory to the many hot, dry Fourth of Julys you have lived through and you have *the* reason why more than half the food garden goes on a strike during July and August. But this need not be the case. With the help of *extra* heat-resisting and drouth-defying members of the various cool season crops victory may be scored over the season's seasonable behaviors.

Bear in mind that all the facts and figures given here apply to gardening in the so-called transition zone extending approximately from the 35th to the 40th degree of latitude. Farther north much better results with all cool season crops are the rule. Farther south, it's folly to even attempt to grow them!

Leaving out of consideration entirely those vegetables that revel in heat—Tomatoes, Corn, Beans, etc.—the balance may be divided into two classes viz: those that grow the edible part *in* the soil, and those that bear the crop on plants or vines *above* the ground. Obviously the latter class suffers most, because greater evaporation affects, first the plant, and then the product it bears. I am having in mind particularly the Peas, a vegetable of which few of us ever get enough and, unless account is taken of the extraordinary evaporation to which Pea vines are subject, are very apt to turn out a very disappointing midsummer crop.

PEAS. My own experiences with Peas sown during May have proved conclusively that there is little use sowing tall-growing varieties of the Telephone or Alderman type. Their extensive foliage presents such a tremendous surface to heat attack that frequently the young pods drop off or dry on the vines. The dwarfs stand dry weather much better. But at best, the pods will be shorter than normal and there will be fewer of them. To neutralize these inevitable results, pick large podded, heavy yielding sorts to begin with. Don't select Gradus—it is a "shy" yielder! But its dark podded companion in season of bearing (70 days from sowing). Thomas Laxton, performs splendidly. So do Little Marvel (60 days), Sutton Excelsior (65 days-68 days), and Blue Bantam (75 days). All of these have the enviable record of bearing 6 to 8 pods per plant holding 6 to 7 large peas per pod and totaling 5 to 6 quarts of pods per 10 feet of row during late July, 3 to 4 quarts from the same space during August, from *late* May sowings.

LETTUCE. Next to Peas perhaps the most desired crop, and even a more difficult to handle, is Lettuce. By preference Lettuce thrives best in cool, moist sections. But there is one class which, ages ago, adapted itself to the heat of the Grecian Archipelago. The Island of Cos gave us Cos Lettuce, the only member of the family that defies August heat. Well-grown Paris White Cos is quite crisp and sweet while young.

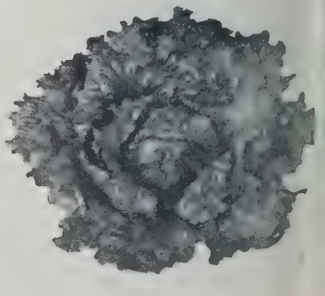
But then, the real ambition of the true Lettuce connoisseur is, of course, "honest to goodness" Head Lettuce and here again nature (with the selective help of man) has evolved a type with extra heavy midribs running through the leaves. So strong do these ribs curve over the splendid heart of New York or Wonderful (also called Lo

(Continued on page 294)

The most heat resistant type of Lettuce is the Cos, or Romaine, a native of hot Mediterranean regions

Honestly, Peas are not adaptable to hot weather culture, but if you must make the trial use a Dwarf type—it has less evaporating surface!

Of Head Lettuces for hot weather choose one that has a heavy midrib to the leaf—and provide shade



How Shall I Furnish My Room?

The dominant warm tones of the chintz and furniture in this bed chamber are modified by the plain tones of the walls, rug and the covering of couch and chair. The atmosphere is one of restful simplicity, harmony, and comfort

The "Distinctive Something" That Makes the Bedroom Personal—Individuality Expressed in Color and Design

Estelle H. Ries

Photographs by Mattie Edwards Hewitt and John Wallace Gillies

THERE is no room in the house in which your own personal preferences may be more freely exercised than the bedroom which you occupy. Here your individual taste has the fullest play. While the living rooms, by their very nature, have a communal aspect there is no such demand upon the private rooms of the family, and this makes it especially interesting to plan for each member, a place that truly represents the occupant.

If you go to see a good play cleverly produced you know that all the details—the furniture, the pictures, and even the smallest accessories—have been selected with the greatest care in order to create a certain kind of interior, to express a definite series of attributes. If it is desirable and possible to do this for a mere play of transient interest, how much more should it be done in our own rooms, where effects of permanent importance are to be produced! If a stage-set may at a glance reveal formality or quaintness, dignity or romance, domesticity or refinement, or any one of a dozen traits, our rooms may do the same. The chief difference is that the theatrical producer goes at his problem consciously and deliberately, while we in our homes are swayed by almost every consideration before that of personality.

If we see a play in which there is no element of joy or gaiety in the whole action, and the theme consists of one struggle after another, there will be a heavy, sombre treatment, and brilliant colors are not apt to be found in the setting. On the other hand, take a play of youth and fantasy, and very pure and brilliant color will be used. It is one of the obvious ways of emphasizing a desired impression. To play up a personality we must eliminate antagonistic ideas and incorporate those that are sympathetic.

WHEN we analyze a room as we analyze a person, there are so many similarities that the one reveals the other. A room, like a person, may be conventional or unconventional, pompous or trivial, vulgar or refined,

Simple in design is this room where an attractive color scheme is carried out in the draperies and motifs on the beds and dresser

lavish or parsimonious. And it is logical to believe that the room will be whichever one of these was wanted by the person who planned it. Sometimes, of course, this wanting has just developed in an unconscious sort of way, but it is none the less telling and significant. Thus the room is something of a boomerang. No sooner do we impress our personality upon it, than it reflects that personality, trait for trait. And even if we have done it unconsciously, or if the personality we have impressed on it is dull or weak, this will be revealed as clearly as if we were the world's eighth wonder.

Just as a Salvation Army lass would not sport around seeking alms in a gaudy evening dress, neither does the mild little woman surround herself with anything bizarre either in her wearing apparel or in her room. For most women are sensitive to their personal surroundings. It may be a color or a fabric or a style that will either depress or stimulate them, and half the battle is won if a woman is able to analyze just what it is about a room that she does not like. No technical knowledge, of course, is required to know that a large overstuffed leather chair is unsuited to a dainty little gold room. The difficulties are not always so obvious, but a little thought will usually reveal them. Her room should give sincere expression to a woman's personality, but she cannot create a sympathetic environment if she feigns a personality that she thinks is "smart."

There are people who believe that anything unusual is artistic, or that somehow the most ordinary thing may become artistic by being used in some unaccustomed way. To put things to uses for which they were not intended may be original but it is not wise. Originality *per se* has nothing to commend it. There is no gain in being different from others at the cost of comfort—far better to be comfortable in one's own way, even if it is the way of most people.

THE clever woman naturally selects colors for her room that are becoming to her, and since her clothes are also chosen with this in mind, the two should always be in harmony. This is especially true of her indoor attire. Out-of-doors one is largely guided by the weather and by the conventions, and so one is more apt to adhere to conservative colors. But indoors these restrictions are lifted and one may be more nearly oneself. The lady of light hair and delicate features dressed in soft, simple colors might pass unnoticed in a crowded public place, but she could become a distinctive and commanding figure in the background of her own room. So, too, the woman with dark hair and bright eyes who loves glowing colors will restrain her exuberance out-of-doors, while at home she may plan her surroundings for quite daring colors in her costumes. Knowing the color scheme of her rooms and the kind of gowns she is planning, she has little difficulty in considering them with reference to one another. The choice of color must also take into consideration the age and habits of the woman who is to occupy the room. Combinations of color that are charming for young people are decidedly not so for the older and more settled woman.

National types are helpful in directing a woman in her room schemes. If she is dark and lithe and romantic-looking, like a Spanish señorita, a certain vividness in her attire and in the setting of her room is permissible. If she has the roguish glance, the expressive gestures, the *chic* and mannerisms of a Parisienne, there are countless styles for her to affect in the beautiful French periods of furnishing and decoration, as well as in her clothes. If she is the older, stouter, ampler blonde of the German type, these things are obviously not for her, and her room and its colors will be less dainty and romantic, and more sturdy and comfortable.

A woman who is nervous or over-stimulated physically does well to plan a calming color scheme in the nature of a sedative. Contrariwise, the over-relaxed person finds stimulation in the livelier colors. Texture plays its part in these considerations. A dull texture removes some of the insistence of a bright color, while a dull color seems livelier in a shiny texture. There is always an interplay possible, so that one is not obliged to select arbitrary color schemes for a physical result that may be mentally disagreeable.

AN "average person" has considerable freedom in choosing the furnishings for her room. Almost anything she plans will be satisfactory, for she is neither too dark nor too light, too stout nor too thin, too tall nor too short, too dull nor too bright, to fit in easily with the surroundings. But there are few people like this, and furthermore, most of us cling rather willingly to those features about

Gay coloring in curtains and paper bring charm to this very livable room, Colonial in all of its appointments, that is unconventional and homelike

ourselves that are not "average" but rather unusual.

While our rooms may not always be considered ideal for our particular type, corrective measures are quite possible. Almost any woman, for instance, has a favorite chair. This chair is her immediate background as long as she occupies it. The small person will not select one so large that she is lost in it and her feet dangle without reaching the floor. Neither will the large woman select a slim, frail-looking chair in which she must obviously be uncomfortable. Too, if the color of her favorite chair is not agreeable to her, recourse may be had to a large square scarf of chiffon or silk. She may wear it, or throw it over the chair or the end of the sofa which is her immediate background. It will of course be chosen to harmonize herself, her clothes, and her room in proper and attractive color accord.

As another valuable asset in correcting an unsatisfactory background a decorative screen may be recommended. Its size should suggest the daintiness or the strength of the occupant of the room. Its color may express her personality. Its ornamentation will reveal her taste. The large person in a small room may choose a screen with a bold pattern to add strength to it, or one of a cool, receding color to give it distance. The small person in a large room finds a screen useful to divide it and improve the scale.

For the room of a short, slender woman, daintiness is the key-note, and the background small in scale, light in texture, delicate in color, is suitable. A tall, heavy woman, on the other hand, should emphasize poise and dignity. Her size should be accepted as an asset, and should never be concealed or belittled by anything frivolous, coquettish, or too youthful in effect. She will do well with rich materials, heavy silks and velvets and such fabrics as give her room weight and dignity. If the lady is tall and thin, she will do well to emphasize the horizontal lines in her room. Pictures and mirrors hung horizontally will do this, and also those in round frames will help to give the unangular impressions that are sought. Upholstery for a tall, thin person may be soft and yielding, so that some of her angles will be obscured as she sinks into it. This is just the kind that should be shunned by the short, heavy woman, for it only adds heaviness to her appearance, and makes her sink still lower when she sits, thus emphasizing the impression of stoutness and shortness. Her upholstery should be of the stiff, hard kind, a firm tapestry rather than a squashy velour. The short, stout woman should emphasize vertical lines and angles, while the tall thin woman should accent curves and horizontal impressions.

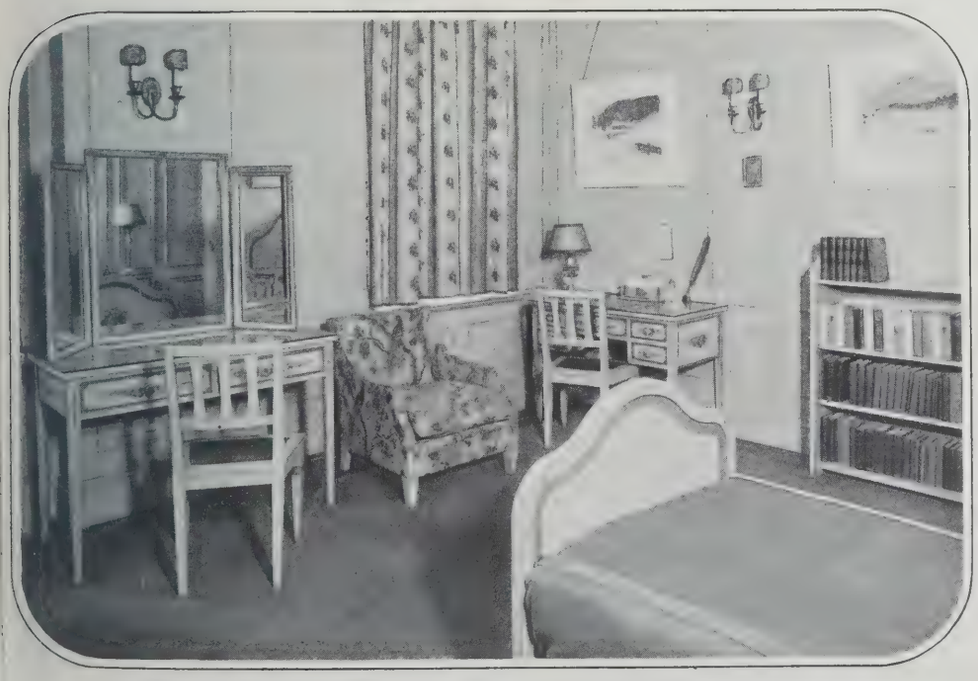
A bedroom more clearly reflects one's personality than any other room in the house, this one telling definitely of its owner's appreciation of the furniture and furnishings of Colonial days

The beauty of a color should not be considered alone, but must particularly have reference to your complexion and general type. There is no complexion, interesting or commonplace, that cannot be improved by wise color selection. The combination of the complexion with the various hues of hair and the color of the eyes makes the physical indivuality and should be regarded as part of the color scheme of the intimate room, to harmonize in due accord.

The woman with red hair has always been a center of attraction. She comes down to us through the centuries with a reputation for magnetism, vitality, and, let it be whispered, temper. And all these qualities seem to be concentrated in her red-gold hair. She will never go unnoticed, and that is at once an asset and a responsibility. It is an asset because indifference is the greatest enemy a woman can encounter, but it is a responsibility in that the attention she attracts must be favorable and permanent. The Titian beauty must avoid over-emphasis in extraneous color. Her own color is a fine climax, and attention is only divided by adding many others. Corals and all the pink, rose, and red colors should be strictly shunned, either on her person or in her room. Blue and green are very successful, the choice depending upon her eyes. Pastel shades are desirable, except yellow and simplicity may be depended upon. Soft textures are advisable.

A blonde with quiet eyes and faint pink complexion can be annihilated by too strong colors. The blonde, who is usually dainty and delicate in the impression she gives, is seen at best advantage amidst dainty and delicate colorings and the richer textures with an attribute of elegance. It is popularly believed that pale people should surround themselves with strong colors to impart color to the face. As a matter of fact, strong colors are more apt to exaggerate pallor than relieve it. The brunette, on the other hand, seems to have more vitality and strength. Her surroundings may be sturdier, less dainty, more substantial, a trifle more manly. Her room

(*Continued on page 298*)



Modern in every detail is this room where the severity of the plain panelled walls, white trim and furniture is relieved by gay colors in upholstery and hangings. Even the books on the white shelves are depended on to bring a note of warmth as do the motifs on desk and dressing table

The Domestic Bulb Supply and the West

By a "Westerner"

IT IS no secret that bulb growers in the Puget Sound country have no quarrel with the regulation of "Quarantine 37," restricting the importation of Narcissus and kindred bulbs, but rather a spirit of elation—selfish perhaps—permeates the bulb growers in the Pacific Northwest. Long have they contended that the friendly soil of the Puget Sound basin, and the mellow, temperate climate of this section, is ideally suited to bulb culture, but the keen competition offered by the European exporters has, heretofore, stifled the growth of the industry. Little wonder then, that with this handicap removed by the Quarantine, the growers are taking a new lease on life, and dreaming dreams of a "Dutch bulb" industry on the Pacific coast, where climate and soil duplicate, if they do not indeed excel those of Europe. They further make the claim that nowhere else in the United States can bulbs be grown equal to those raised on the shores of Puget Sound, which may or may not be true.

Among the large number of bulb growers interviewed regarding their attitude toward the embargo, only a few emphasized its merits as a pest control, although the need of ridding the industry of eel worm, the lesser and the greater narcissus fly, and bulbs mite was recognized. Uppermost in their minds seemed to be the economic aspects—the possibilities of supplying the domestic demand by bulbs from domestic sources. In other words they regarded the Quarantine as a protection of the industry against Dutch competition.

This attitude has manifested itself in a phenomenal growth of the bulb industry in this region during the last three years. From a back-yard endeavor it has reached the proportions of a big industry, with the possibility of furnishing the market next year with about thirteen million Narcissus bulbs, besides large quantities of Tulips and Hyacinths.

A great deal of time and money have been invested by the growers thus to extend their activities—done largely on the strength of the protection to be afforded by the Quarantine. Little wonder then that the growers were loud in their protests when an effort was made last November to have the bars of the embargo let down.

The organized opposition, from this section, to repealing Quarantine 37 came from the Puget Sound Growers Association, a newly organized coöperative endeavor to market bulbs. Frank A. Chervenka, president of this organization had this to say: "The repeal of the embargo would not only continue the jeopardy to the industry from insect pests, but would be manifestly unfair from an economic standpoint. When the proposed federal edict against the importation of Narcissus and kindred bulbs was first announced three years ago, we made preparations accordingly. We invested huge sums of money in planting large acreages on the strength of the fact that our bulbs could be profitably marketed with restricted importations. We feel that the American bulb industry, still in its infancy, needs this protection, at least until our markets have become firmly established, and the quality of our bulbs fully demonstrated."

H. A. Houser, superintendent of the Government Bulb Garden at Bellingham, Washington, is an ardent supporter of the possibilities of the Puget Sound territory as a most likely source of supply to meet the acute demand of the future, when Eastern "forcers" must needs look elsewhere than Holland in filling their orders. He averred that the frostless winters, cool springs and dry summers of this section places it in a class by itself as a land favored for bulb culture.

"The hot weather in spring, in the Middle-West and Southern states, is a severe handicap in the commercial propagation of bulbs for forcing purposes," he maintained. "Hot weather in spring causes too hasty a growth, thus depleting their vitality, and making them soft and flabby. Of course this brings no objection from the home gardener, but the forcers demand a hard, firm bulb.

"Heretofore the Eastern market has looked

Raising seedling Daffodils is the hobby of Mr. Samuel Goodell, an amateur in the state of Washington. Already some of his creations have been selected for introduction

Might as well be in Holland, but actually on the North Pacific coast. A field of Narcissus Sir Watkin where the bulbs are being grown to supply the domestic demand

to Holland to supply this kind of bulb, not because they cannot be grown in this country, but because the American growers have failed to provide a sufficient supply in quantity to attract big buyers. American growers have hesitated to 'buck' Dutch competition and as a result the bulb industry, for the most part, has been a 'peanut-stand' effort to supply the local retail trade. Of course it has been highly haphazard and unsatisfactory from a financial standpoint for this very reason.

"It is my opinion that the new Regulation under Quarantine 37 will not only protect the growers of bulbs from insect pests, but that it opens the door of opportunity for a more extensive expansion of the industry."

H. E. Juenemann of Bellingham, Washington, who was until a short time ago superintendent of the government bulb farm in that city for several years, is fired with enthusiasm with the possibilities of inaugurating a gigantic bulb industry in this section. However, he sees difficulties, and it is a question in his mind whether the industry will "just grow" like Topsy of story book fame, or whether it will be guided and fostered intelligently by those who "know the ropes."

"Horticulturists find themselves in a peculiar position now, with the quarantine ban on a large number of trees and shrubs, and the further ban on certain varieties of bulbs," Mr. Juenemann declared, as he laid aside his hoe in the garden where he was planting bulb seedlings.

"The American growers are not ready to supply the newly created demand, which is not surprising, though they have had ample time to prepare for this very contingency. It will be of interest to note whether the American importers will use their means and influence to stimulate domestic production of bulbs, or whether they will use their ingenuity in attempting to hurdle the embargo by subterfuge. It will not be difficult for importers to get special permits from the Federal Horticultural Board to import bulbs, ostensibly for propagating purposes, and then make clandestine sales.

At Tacoma, Washington, another "bulb factory." Here we see the Large Trumpet Daffodils in extensive fields

"I wish to state emphatically, after a score of years of experience in all parts of the country, and in European bulb centers, that Puget Sound offers the best natural conditions for bulb culture found anywhere. I will also say that 'forcing' bulbs grown in western Washington will bloom from seven to ten days earlier than similar bulbs imported from Holland. Many varieties of Puget Sound bulbs can be forced in the East to flower by December first. I have raised Darwin Tulips here that blossomed as early as December fifteenth with 98 per cent. flowering. These bulbs generally bloom no earlier than the middle of January.

An Eastern bulb farm where Daffodils are being grown in commercial quantities to supply the future demands

"There is virtually a 'gold mine' in the bulb industry in this region, but that really doesn't mean anything, for like real gold it must be mined to be remunerative.

"With the American inventive genius, improved machinery, enlightened farm folk, climatic and soil conditions, equal, if not better than elsewhere, there is no good reason why this country should not be horticulturally

(*Continued on page 318*)

Tulips near Seattle, grown in the narrow beds of the Dutch system and similar plantations may also be seen in the East

Plan Improvement Contest

Suggesting a New Door and a Shift in the Clothes Chute Won the $25 Contest in February—By Frances Congdon, New Bedford, Mass., the Winner

THE February Plan Improvement Contest for the $25 prize brought suggestions for altering three different plans and the award is made to the best presentation of the one detail that occurred to the greatest number of entrants. Miss Congdon had many companions in indicating the rearrangement of the bedroom door as shown in the plan on page 422 and (as amended) herewith; but she alone took cognizance of the location of the clothes chute.

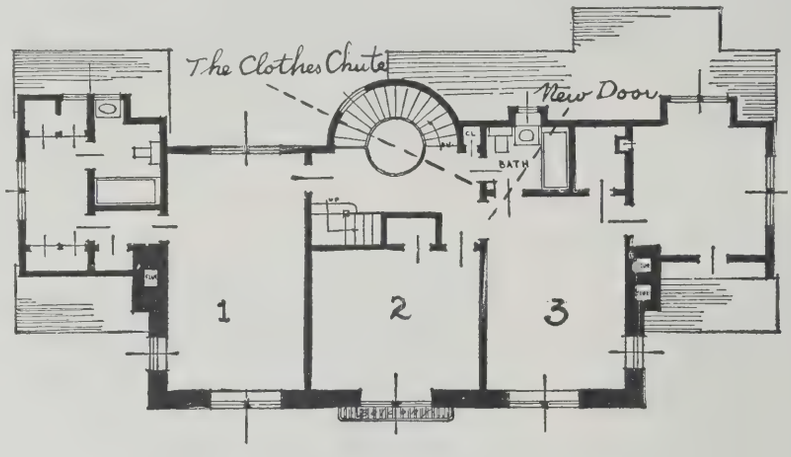
A number of contestants offered amendments in the Prize House plan, but by this time those plans would seem to be out of consideration—they are really some months old, although repeated in our Prize Announcements in February.

The award is made to the suggestion that appears to be the most ingenious, simple, and practical modification. Some contestants, sent in elaborate reconstruction schemes which were, in fact, *new* plans rather than ingenious modifications, and as such are out of the class. Radical deviations from the original plans that change the "mass" of the building, or necessitate almost complete reconstruction and new specifications are hardly to be considered as simple improvements. The winning suggestion follows:

I AM enclosing a tracing of the plan of the house of Mrs. A. W. Bennett, Richmond, Va., page 422 of the February, 1926, issue, showing two changes which I think would improve the floor plan.

1st: Cut a door from the stair hall into bedroom 3. This would give access to that room and the sewing room beyond other than through a bathroom which is shared by the occupant of another room.

2nd: Put the clothes chute into the corner, between the two doors of the bedroom which opens out of the hall and bedroom 3. This shortens the distance to carry soiled linen from bedrooms 1 and 2 and thus saves many, many steps as well as making it unnecessary to carry soiled clothes from two bedrooms through a third one. This change brings the clothes chute through the kitchen by the door to the closet where an opening would be just as convenient as in the pantry. Any space taken from the kitchen closet would be made up in the added space in the pantry. It was impossible to take the laundry into consideration as the plan of the basement was not given.—FRANCES CONGDON, New Bedford, Mass.



Miss Frances Congdon's prize winning plan in the February contest

Our Prize Announcements

A $100 Dividend in Contentment

(Entries close August 1st)

FROM time to time during recent months we have been publishing, under the general title of "Dividends in Contentment," little stories of people who have gone back to the land, people who have rediscovered "earth's undersong of comfort." It is a theme very near to many hearts to-day—this second coming of the land into her own, her reassertion of the vital part she plays in human lives and destiny. Through the whirring of much machinery we begin again to hear the still small voice.

For the sake of readers similarly seeking inspiration and direction and because we believe that "the swifter the pace, the sharper the tension of modern life, the more surely will the country—with all it has to give—come again into its own," we want to hear further from folk who have dared, and breasted, and bested the great adventure of living on the land.

For the most stimulating, authentic story of this kind which reaches us by August 1, 1926, a "dividend" of One Hundred Dollars ($100) will be awarded. Manuscripts, other than the prize-winning one, deemed suitable for publication may be purchased at regular rates. Articles not to exceed 3,000 words nor be less than 1,200 and to be accompanied by pictures of the homestead or farm, its garden, orchard, cattle, chickens, or whatever the special feature which affords success. Address Dividends in Contentment Competition, % The Editors, GARDEN & HOME BUILDER, Doubleday, Page & Co., Garden City, N. Y. (Authors desiring manuscripts returned must so request when sending in and enclose postage for that purpose.)

For Garden Photographs $50

(Entries close October 1st.)

TWO prizes of $50 each are offered to Garden Clubs for the most attractive and interesting photograph (or photographs) of a garden made this year. Contest closes October 1st, 1926, by which date all photographs with explanatory details showing how the garden was made must reach The Editors. A club may submit one or more photographs of any garden in its district. The photographs must be suitable for reproduction and should have about a thousand words of explanation as to how the garden was worked, what it accomplished, and some account of the most interesting features. We reserve the privilege of purchasing at regular rates any material submitted. Unsuccessful entries will be returned only when requested and stamps are enclosed for postage. Address: Photo Contest, % The Editors, GARDEN & HOME BUILDER, Doubleday Page & Co., Garden City, N. Y.

Each Month $25 for a Simple Practical Improvement

(Contest for this month closes June 1st)

WHAT is your practical suggestion, with sketch plan, of a simple modification for bettering any plan of either house or garden, or both, appearing in this issue? Each month GARDEN & HOME BUILDER offers a $25 prize for the most striking, practical suggestion for the simple improvement of any of the plans in the current issue. (Elaborate reconstruction will not be considered). This applies to any plan printed for the first time in this month's number and replies must reach us by June 1st.

It may be that you can see an improvement by stealing space for a closet, or adding an extra bathroom; the approach to the garden can very often be made more practical, more fitting; or perhaps, it is the garden itself that can be bettered. These are but suggestions by way of example. Unsuccessful entries cannot be returned, and the right to use any (at regular space rates) is reserved. Address entries to: Monthly Improvement Contest, % The Editors, GARDEN & HOME BUILDER, Doubleday Page & Co., Garden City, N. Y.

On a city lot with less than 60 ft. frontage, shut in by high walls, and containing a large house, is this pool of Mr. David B. Fischer, winner of several contests conducted by the New Orleans Garden Society for the best city garden

Waterlilies for Gardens of the South

Mary H. Nelson

Photographs by H. J. Harvey

HERE in the warm Gulf-coast region growing Waterlilies is the easiest thing in the garden. They need little attention after they are planted; and the points to be considered when choosing the locality for making the water garden are sunshine, good soil, and warm water. Many have failed to get good results by not getting proper advice when starting their pools.

Select a spot where the noonday sun will reach the plants, and see that the soil is deep and rich. Each plant must have at least one foot depth of water and should have not less than one square foot of soil in which to spread its roots. The larger and handsomer varieties of Nymphaea such as the brilliant Escarboucle and the deep crimson Attraction need two and one-half square feet spreading room; and while two feet of water over the roots will do for most, these varieties should have 30 inches or more.

Care in the selection of the variety used is necessary, for some varieties have not done so well as others here. A local florist's advice is better on this point than selecting from a catalogue. Our native white Pondlily (N. odorata) and both the yellow Lotus and the pink one will grow wild on almost any pond or bayou where the water is not salt, while the lovely Water-hyacinth (Eichhornia crassipes major) will even grow where the water is slightly brackish. Besides these our Southern plant dealers have many other varieties which have proven very successful here. Nymphaea zanzibarensis has been

found one of the most satisfactory of all the tropical kinds and comes in darkest blue or purple, clear azure-blue, and various shades of rose. They are all day bloomers. Pulcherrima, Robinsoni, and William Stone are also good day blooming Nymphaeas. For night blooming there are a number of good ones: Bissetti, rose-pink flowers, 8 to 10 inches in diameter; dentata, white, flowers growing as large as 12 inches; devoniensis, a pure red flower; and many others.

WHEN planting do not put the young plant or tuber into deep water. It will rot instead of growing. Prepare a tub or box holding at least one cubic foot of earth; and it cannot be too rich. Cow manure is the best fertilizer. The proportion should be about three parts of soil to one of manure. Next put in the seeds or tuber. If seeds are used, pile a few pebbles around them to keep them in place. Now add about one inch of clean sharp sand to keep the water from being discolored. Place the tub or box in the water so it is covered only a few inches, using bricks or blocks of wood under the tub to bring it to the desired height. These can be removed

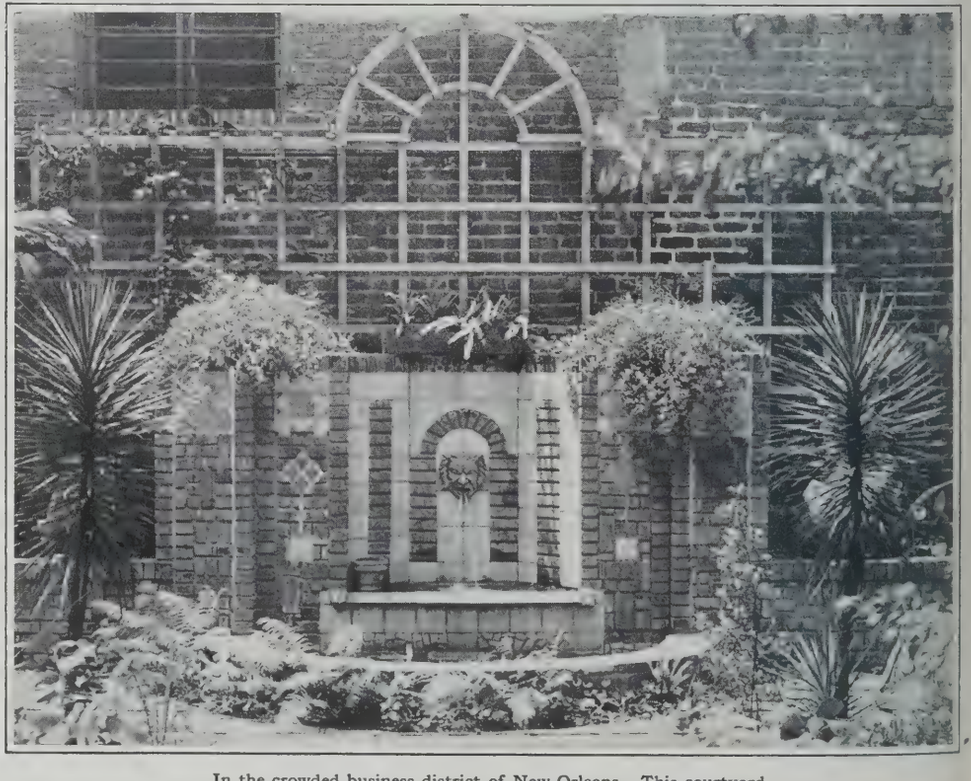
Waterlilies in the pool of Mr. David B. Fischer, New Orleans, La.

Late summer view of the New Orleans garden of Mr. Charles Mauthe with Nymphaea in full bloom

one at a time as the plant grows, until the water is two feet or more over the crown of the plant. If it is possible to fill your pool a little at a time, keeping the leaves on or near the surface, this is the best plan. When planting in a natural pool or stream put the new plants or seeds in rich soil near the edge of the pool where the water is shallow. You will be surprised how soon they will move themselves to the depth best suited for their proper growth.

The ideal pool for a formal garden is one with a sloping bottom, one foot deep at one end and three or four at the other. Blue or green tile may be used to floor the center of the shallow end, giving pretty lighting effects with the sunlight, while the edges will be covered by the boxes containing the water plants, which may be started at the shallow end and pushed gradually to the deep end as the plants mature. The small species of water plants such as N. odorata minor and the Waterpoppy (Limnocharis humboldti) which need only 6 to 8 inches of water, may be used to fill up this space after the larger plants have made their start. The various varieties of Nymphaea tuberosa and the Lotus need the deepest water and should be started first. Around this pool plant Water-cress or other water loving creepers. As a background plant the tall Thalia dealbata with its canna-like leaf. There should be fish in every water garden to keep down the mosquitoes and therefore plants of Anacharis canadensis gigantea (Giant Waterweed) and Sagittaria natans should be put in for the fish to feed upon.

In making a water garden there is but one big "DON'T." Don't get the Water-hyacinth Eichhornia crassipes major started in ponds and streams. Keep it in small, well enclosed pools or tubs and where it cannot spread. It is beautiful, but has ruined many navigable streams and the U. S. Government is trying to eradicate it. So if you grow tired of it burn it; do not throw it out where it may reach water and become a pest. Eichhornia azurea which makes ropes, or long floating stems has been known to cover a five-acre pond in one year so a man could walk across it on the mat of fibrous stems. It so crowds out other plants that it is not wise to plant it at all.



In the crowded business district of New Orleans. This courtyard has a wall fountain, and pool where Waterlilies and fish thrive

A Small House in the Country

The Home of Mr. and Mrs. Harry F. Klein, Near Birmingham, Michigan

By Marion Holden

Photographs by Thomas Ellison

A sense of seasoned age and dignity has been achieved in both the exterior and interior of this little country house, recently built in Michigan by Mr. and Mrs. Harry F. Klein

THIS little house might easily be mistaken for one of the rejuvenated farmhouses that have become so ubiquitous, but it is none of those. It was planned and drawn to scale by its owners and built last year by the village carpenter and the village mason. It combines much of the charm of the old along with the weather-tightness and sanitation that are sometimes missing in the dear old things that have been so carefully renovated. Although some of the material in the house is old—the outside horizontal boards, for instance—the owners have not bent the knee to the antique to the extent of having their material worm-eaten and rusted.

The floor plan is well nigh perfect for so small a house. The living room is spacious, and the dining end is conveniently near both the kitchen and the porch, where breakfast is eaten and luncheon served on sunny days in spring and summer. It looks out over fields, across the stream and through huge trees to the white fence and the country road. The house is about three miles from the village of Birmingham in Michigan, and a mile or so from the main highway.

The old bricks for the fireplace were picked by hand, and the mantel designed by the owners to hold candles and plates and the old clock. The copper hood which adds so individual and colorful a note was made by the village tinner. There being no electricity, kerosene is used for lighting with delightful brass cabin lamps in printed paper shades, and a glass lamp to help out the candle light from brass sticks and copper sconces.

Much of the charm of the living-dining room comes from the informal character of the furnishings and their arrangement. Some of the furniture has been coaxed into its present mellow hue by sandpaper and wax and much patience; some of it was picked up at antique shops and farm houses round about; much of it was in the family. The ladder-back chairs are painted a very dark red; there are bits of bright pottery here and there on shelf and table; and the rugs add another subdued color note, being both old and new braided and hooked. The melodeon actually plays, and it is recognized by these wise people as being the only music that fits the room.

Back at the left is a small den or book room which may, upon occasion, accommodate a guest on its day bed, In the corner is a Franklin stove, with a backing of old brick set into the wall behind it. The bedroom opening from the other side of the fireplace maintains the general atmosphere of the living room in its spool bed, maple chest of drawers and small tables.

The hardware is of iron reproduced by the village blacksmith from old latches and hinges. There is no basement and no furnace in the house, and it is heated by an Arcola which operates from a little back room off the kitchen where is also the laundry and a fuel box nicely covered.

The wall tone throughout the rooms is putty color, with ruffled curtains at the windows, and no window shades since the green shutters which work from the inside are all that is necessary in so secluded a spot. The floor boards are oak, not so wide as the pine ones in old houses, but wider than is usual nowadays and much easier to care for, with their varnished and waxed surface. The old prints in walnut frames are as delightfully in keeping as is everything else.

Garden of Fragrant Flowers that won the Mrs. Mortimer J. Fox prize (F. R. Pierson)

PHOTOGRAPHS *from the* 13th INTERNATIONAL *New York* FLOWER SHOW

Naturalistic Daffodil garden by Mrs. H. I. Pratt, which won the Holland Challenge Cup

Spring's Flower Shows

Photographs by Edwin Levick and Knikerbocker Photo Service

THREE eastern centers saw three spring flower shows this year. As usual New York dominated and outclassed those of Boston and Philadelphia in magnitude of material and in popular attendance. The hundred thousand mark was reached. Philadelphia opened its show a few days in advance of New York and it was an exhibition mainly of "retail florists" exhibiting the uses of flowers in domestic and formal decorations. Boston surpassed in sheer quality of floral magnificence but because of the limitations of available space in the building, Horticultural Hall was crowded to excess and indeed periodically the gates had to be closed in order to handle the crowds. The Massachusetts Horticultural Society has successfully launched a characteristic spring flower show and repetitions may be looked for in succeeding years. Striking memories are the displays of Kurume Azaleas by Prof. Sargent and Bobbink & Atkins, and the picture grouping of a rich collection of Acacias with which Thomas Roland filled the far end of the hall against a suitable sky blue background.

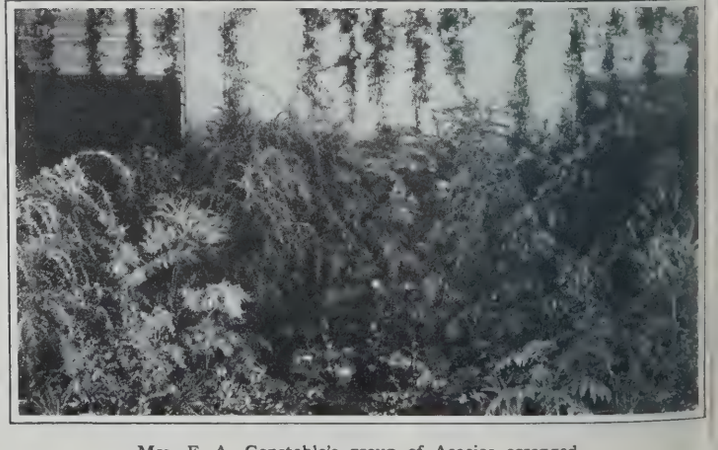
New York's Thirteenth International Flower Show achieved new heights in popularity and it showed a wealth of variation in arrangement and display that overcame the threatened monotony of repetition that seemed to be looming up dangerously in late years.

In varying shades of blue this tower of fine varieties of Larkspur by W. H. Duckham was startling indeed

THE Garden Club of America had its own display as a feature of the New York show and the garden clubs of New England affiliated in the Boston exhibition. New Yorks' feature as always before was in the garden-like arrangements which are so pictorially attractive and pleasing to the color sense of the visitors and which unquestionably are a stimulus and an incentive to garden making, notwithstanding the criticism passed that these gardens are not real and could not be reproduced. No one should expect that. They are demonstrations in design with the material available at the time and are merely suggestive of solutions that must be worked out individually, each one on its own merits.

A novel and outstanding feature was the fragrant garden (F. R. Pierson) staged in response to Mrs. Mortimer J. Fox's prize. It was worth while in bringing to mind this really essential but perhaps somewhat neg-

Mrs. Payne Whitney captured a gold medal with this colorful gardenesque arrangement of flowering plants



Mrs. F. A. Constable's group of Acacias arranged around an aquatic garden was a veritable masterpiece

lected attribute of the flowers. Color and form play their part but fragrance is a supervening glory. Here we meet English Primrose, Heliotrope, Daphne, Lilacs, Lily-of-the-Valley, Violets, Lilies, Roses, to recall just the more conspicuous things. Gardeners who ignore fragrance are certainly losing something of the subtle attraction of the garden.

(Continued on page 320)

Restraint and color harmony dominate this classic garden by John Scheepers (Tulipa clusiana at base of temple)

Mrs. Seton and Mr. Clarence Lown coöperated in presenting a real rockery and rich variety of appropriate plants

Brasso-cattleya Albion Mrs. James J. Walker, pale lilac and lightly veined. Raised and shown by George Schlegel

A GROUP OF DOORYARD EXHIBITS OF THE GARDEN CLUB OF AMERICA

(© R. A. Warrender)

By the Garden Club of Easthampton

By the Somerset Hills Garden Club

Bermuda. By the North Country Garden Club of Long Island (1st prize)

By the Fairfield Garden Club

By the New Canaan Garden Club

The Colorado Home of an Architect

Mr. Alpheus W. Chittenden

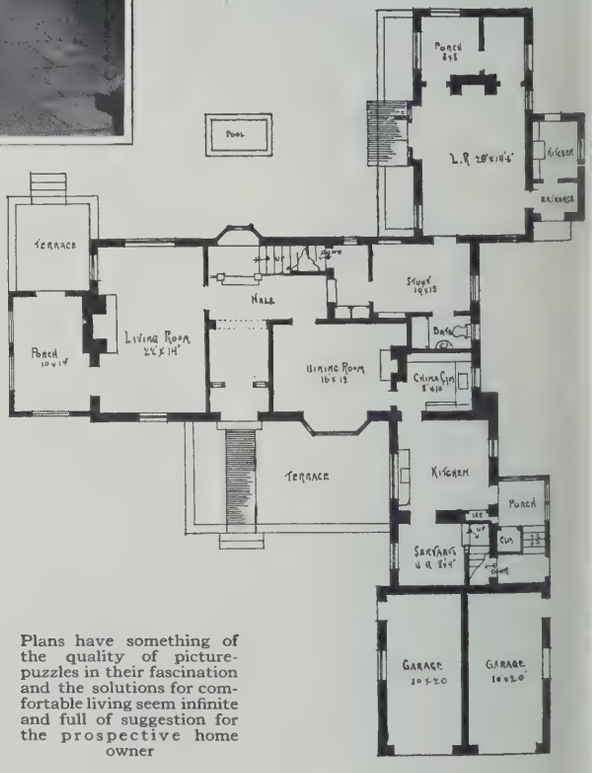
Broadmoor, Colorado Springs

Designed by its Owner

Photographs by H. L. Stanley

Contemporary domestic architecture in America is as a whole admittedly better than that of the Continent and it is heartening to find evidence on every hand of the increasing lift of the levels of taste in this country. Old traditions are being reinterpreted with vigor from fresh viewpoints and this recently built Colorado home is enriched by traces of our English heritage

An adroit use of stone lends interest to the chimney and more than compensates for the absence of the conventional mantel



Plans have something of the quality of picture-puzzles in their fascination and the solutions for comfortable living seem infinite and full of suggestion for the prospective home owner

The low walled terrace is a particularly pleasant feature

Patterned brick work adds vivacity to the surface of the dwelling which is also interestingly broken by the double-story bay

AMONG OUR GARDEN NEIGHBORS

Readers' Open Column for Exchange of Comment and Experience

"Fiat justitia, ruat coelum"

Dame's-Violets in Ohio

TO THE EDITORS:

If only the accompanying photograph could be reproduced in colors so that you could see the pure, lovely beauty of these Dame's-violets! These vased blossoms of Hesperis matronalis, a mere handful from many, came from a small packet of seeds which turned out, or rather came up, to be an unusually successful and satisfying garden planting of mine two years ago.

In May the tiny red-brown seeds were planted in well pulverized earth outdoors where I wanted them to stay, and then lightly covered. However, if you haven't time to plant some *now*, you may safely do so any time during the summer: all they seem to ask for is time to get their roots well grounded before winter. I think every seed came up. When they were flourishing some half-dozen nice leaves I thinned them, transplanted some, and gave away plants, and yet had a fine line of them up and down our driveway.

They grew well. Fine strong plants met the winter blithely, and presented a clean fresh greenness all through the gloomy, drab days. They are quite hardy perennials and at the first hint of spring, sprang into quick, lengthy clumps, some more than three feet high.

And then came the blossoms—showy terminal spikes of flowers ranging in color from purest white to purple, gloriously attractive. The purple is that rare, pinkish lavender which gives such a cool, misty effect. The spotless whites are like flakey snowballs. One plant, the only one of its kind, produced white blossoms with a distinctive purple eye.

Dame's-violet is a lasting flower, especially desirable for cutting and bouquets. At a national Iris show last year the dainty, scented beauty of Dame's-violets provided the decorative touches to some artistic displays that won prizes. They seemed to supply just the correct, harmonious shade and daintiness for the sturdy, dashing Irises.

The Hesperis seeds itself prolifically, even pestfully, some garden misanthropists declare. Perhaps they would if never a blossom were picked. That's the easiest, surest, sweetest way to offset such possible displeasing features. Mine were kept cut fairly close and, to prove their friendliness, they threw up spikes and bloomed again—but rather weakly and imperfectly.

Though Dame's-violet will not bloom the first season, when they do flower they recompense magnanimously and the possession of an established garden spot of them is a joy.—GERTRUDE SHOCKEY, Georgetown, Ohio.

Dame's-violet, also popularly known as Queen's Gilliflower, Garden Rocket, Summer Lilac and some half dozen other names, flourish in Miss Shockey's Ohio garden

A Livable Living Room

TO THE EDITORS:

I am writing for advice as to over-drapes for my living room windows, and as to future purchases in the furniture line. I would like to re-decorate, and purchase as I go along new pieces of furniture that would fit into a plan. It is a very much used room, and I want it when finished to be good looking and comfortable, with a lived-in air about it.—I. B. T., *British Columbia.*

—As you are far north we suggest your using something sunny and warm in color, ample in fullness, and simple in line and pattern, if there is not already too much "activity" in the room. If the room is inclined to be over-patterned already we suggest something plain and about the color of the wall, but brighter. A large room with plain wall could probably have pattern (printed or machine crewel work on linen, or silk if preferred) hung to the floor for fullness, or to the sill if informal.

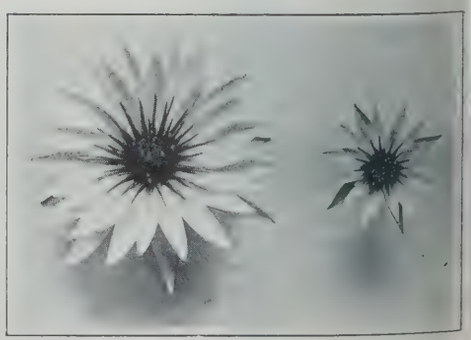
Draw curtains (traverse cord) seem warmer and need no glass curtains unless desired. These could be plain net or gauze in good color (ecru, cream, or even gold).

The room being high could have valance over windows if preferred. Valance should be well tailored, plain and lined or in evenly spaced folds. It would be well to find some clue in the best lines or shapes the room now has and repeat it for unity, getting variety but subordinating things to some dominant which is worth while.—ED.

The New White Tropical Waterlily

TO THE EDITORS:

The range of color from pink to blue has been so long identified with the tropical day blooming Waterlilies as to be considered an essential characteristic. And so it was, until the appearance of the white flowering hybrid Mrs. G. H. Pring, raised in the Missouri Botanical Garden, at St. Louis, where the cultivation of Waterlilies has always been a dominant interest. Mr. Pring, to whom we are indebted for this interesting novelty, has named the hybrid for his wife. From the standpoint of Waterlily growers the appearance of this pure white associate among the gorgeous tropical Waterlilies is sufficiently interesting from two standpoints, not only from the fact that it is absolutely a novelty but horticulturally for the blending influence that it has introduced into the tropical Waterlily pool.



The new day-blooming white tropical Hybrid Nymphaea Mrs. G. H. Pring, raised in the Missouri Botanical Garden, adds an entirely new feature to the water garden. Flowers, 8–10 inches across, fragrant

Mrs. G. H. Pring is the attainment of a deliberate series of experiments working toward the production of the much needed albino hybrid in this group. The variety Mrs. Edwards Whitaker, very pale blue, bleaching to white, was used as the starting point, and the seed parent is Nymphaea ovalifolia (see GARDEN & HOME BUILDER for January, 1926, page 360). The best flowered seedling of this cross with petals similar to Whitaker and also the foliage was selected and self-pollinated during 1920. The resultant seedlings produced pure white flowers. Again in 1921 the finest plant was selected and self-pollenized. The desired variety was ultimately attained by continued self-pollination and selection for three years. This white tropical Waterlily was submitted to the Society of American Florists in August, 1922, and has subsequently been fully endorsed by that organization. The flowers vary from 8 to 10 inches in diameter. Thus there has been added another triumph of achievement to the American horticulturist and the world is the possessor of a flower that it has wanted for years.—H. H. MALONE, *St. Louis, Mo.*

Propagates Amaryllis

TO THE EDITORS:

Some varieties of Amaryllis bulbs increase rapidly by "setting" the tiny bulblets just under a layer of the bulb tissue, near the root, but other varieties reproduce their kind very slowly. Especially is this true of the Hybrids, and apparently the ratio of repro-

A Quartette of Successful Gardening Ventures in the Central West

The garden of Mrs. P. D. Peterson, Galesburg, Illinois, is a mass of bloom the season through from the Crocuses and Scillas to the last little Violas, which have been known to bloom as late as December 22nd!

Attractive border planting, with window boxes of vines and flowering plants on the garage, have made of the once bare corner a pleasant garden spot. The home of Mrs. A. R. Springer, Topeka, Kansas

Irises and Peonies in the Cincinnati, Ohio, garden of Mr. C. H. Chaplin

The garden of Mrs. E. J. Rice, Lyndon, Kansas, where Campanulas, Phlox, Delphiniums, Madonna Lilies, Sedums, Shasta Daisies, and Monardas grow in colorful luxuriance. Above, view of the garden taken from the garage; at left, a border along one of the paths

ductive increase is in inverse proportion to the beauty and rarity of its flowers. Surgery has produced untold miracles in the world of both animals and plants, and it is by a form of surgery that I rather forcibly coax stubborn Amaryllis bulbs to increase their kind.

As all Amaryllis growers well know, the Amaryllis produces seed, but even though the seed is fertilized by the parent plant,—that is, *not* by cross-pollination with some other Amaryllis flower—the seedlings seldom come "true" to the parent plant. Therefore the only way one can be absolutely sure of plants. like the parent plant is by the increase of bulbs. By a simple "operation" I have forced many bulbs to reproduce their kind. By some careful experimenting I have found that under certain conditions I can be sure of two results—perhaps I should say I am certain of *three* results, for I am sure my "operated" bulb will not bloom that season! However, the main issue is that I am sure of several young bulbs and also of saving the life of the original bulb.

Dry off the bulb in summer by giving it all the sun possible and a gradually decreasing supply of water until the leaves are gone and the bulb is cured. Do not in any case allow it to remain "bone dry" so that the bulb or the large roots shrivel. Allow it to remain in this state of rest for a month or six weeks. keeping it in a cool, dry and dark place for the last week or two. When the drying, curing and resting processes are completed remove the soil from the roots and with a thin, sharp and *clean* knife cut off the roots with a small portion of the bulb, say a quarter or a third of an inch thick. I have made the cuts in various degrees of angles; straight across the bulb, thus removing the entire bottom of the bulb, a slanting cut that removes also the entire bottom of the bulb, but leaves a portion of the solid part just above the roots on the original bulb, and gives a high side to the root portion; a third kind of cut is also slanted, but at quite a sharp angle, beginning half way up the side of the bulb and slanting sharply downward, taking only a part of the roots of the bulb, usually about one-half or less of the roots. I like the last two forms of cutting the better, though I believe more new bulbs are produced by the first cut.

Have ready an ordinary garden pot which has been filled to a depth of about ⅓ its height with pebbles about the size of cranberries—this for drainage which must be as nearly perfect as you can make it. Then fill the pot with *clean* sand. Make a little depression in the sand for the original bulb, and sprinkle this depression thickly with powdered charcoal. Dust the raw wound on the bulb thickly with flour of sulphur and very gently set it into the place made for it. Sprinkle powdered charcoal and sulphur all around the bulb and partly cover with the clean sand. It should be covered only about one fourth inch above the highest edge of the wound. But be very careful not to press the bulb or the wound will be bruised and might rot. Another pot should be similarly prepared for the root portion of the bulb, and this should have the raw surface dusted thickly with the powdered sulphur, then the roots placed in the pot after the drainage has been arranged and the sand sifted around them until the pot is full to within one and one-half inches of the top, and the bottom of this portion of the bulb is resting on the surface of the sand. Add enough more sand to all but cover the portion of bulb, then sprinkle about one eighth inch of powdered charcoal on the bulb and cover ever gently with one fourth to one half inch of sand. The operation is now complete, the bulbs planted and ready for growing.

If the sand was dry, moisten the filled pots thoroughly now and set them in the sunniest place possible, where there is a free circulation of fresh air all the time Give them sufficient warm water to keep the sand a little moist, and remember that when the sand is dry on the surface it may be wet farther down, and while it should not become bone dry around the bulb, it is better too dry than too wet. Too much moisture causes decay.

Amaryllis grow slowly, so it will probably be two months and possibly three before the new bulbs make themselves—or their coming —visible, but in time you will see the outer coat of the large bulb begin to rise in spots and later these "bumps" will thrust up tiny green blades. The bulblets will be found under the first and second layers, and often under the third layer and at the bottom where the wound was made. Roots will also form on the old bulb, and the wound will gradually heal. I like the last two described cuts the best because in the one case the new roots form more quickly from the portion of solid base left, and in the other case the old roots help sustain the plant until more are formed. Experiment with these cuts on an onion as it is of very similar growth to the Amaryllis. The root portion will also make new bulblets but not as many as the larger portion will make.

I have found that if certain laws are strickly adhered to success is practically assured. They are these: A bruise means almost certain death by decay, therefore use a clean thin, sharp knife. Sulphur and charcoal discourage decay and fungus growth. Use them as described. Too much moisture causes decay. and red rust—avoid them by keeping the sand on the dry side of moist. Don't press the bulbs into the sand, and don't press the sand either on or around the bulbs, for by so doing you will cause bruises. Give the bulbs all the sun heat possible with all the fresh air there is out of doors.

When the new bulblets have begun growing and the old bulb has made a fair supply of roots dig the sand away around the outer edge of the pot, leaving at least an inch of sand undisturbed around the bulb. Use a collar of stiff paper to hold the sand around the bulb while doing this work. Remove sand down to the drainage and fill in this space with good sandy loam. Do not use any fertilizer at this time. The loam will furnish food for growth for another month or two, depending somewhat upon the amount of soil put into the pot. When this food supply becomes diminished replenish it by the addition of a teaspoonful each of dried blood and bone meal to a five or six inch pot. The bulbs should remain undisturbed for a year, and then may be fed by fertilizer and new soil.—MRS. J. G. CLARK, *Pocatello, Idaho.*

Anyone Know Such a House?

TO THE EDITORS:

Isn't there a demand for a house of six good sized rooms—living room 16′ x 24′, dining room 14′ x 16′, bed rooms 14′ x 18′—on one floor, without entering right into the living room and having to pass through one room to get to another, or without a long hall to accomplish that? Apparently, from the floor plans of one story houses that appear, either the strictest economy of designing is observed or the floor area rambles all over the lot.

As soon as we are able to dispose of our present nine-room house we propose to build one of six rooms—reception hall, living room, dining room, kitchen with breakfast nook, and two bedrooms each with a bath—all on one floor; and on a lot of reasonable width, not on acreage. I will be grateful for any help.—CHARLES R. BARRY, *California.*

—Will some neighbor come forward with appropriate plans and photographs of such a house? We shall be glad to pay for such (if suitable for publication) at our regular rates. ED.

The Nigger in the Woodpile

TO THE EDITORS:

One of the dark secrets of the quarantine closet has emerged in the decision on Narcissus. While other bulbs will still be allowed entry, since no evidence was produced against them, the firm stand was taken against Narcissus directly in the face of the lack of any real evidence brought forth condeming them as bearers of pests. The argument for barring Narcissus seems to be the lame excuse that, as certain American interests in the Narcissus industry had been promised an embargo, the quarantine should stand. If this be a quarantine, make the most of it.

One wonders how much of this cry against other plants as pest carriers is real science and how much is political pull. Knowing some of the failings of some of the Federal departments in recent years, it is easy to suppose that the FHB is not above suspicion. It is particularly unfortunate that a quarantine, which is based on scientific facts, should become unduly influenced by politics and personal preferments. Here was one chance for a Federal department to adhere strictly to the program for which it was created by Congress guided by the actual facts as found by its scientific investigators.

It remains to be seen what will develop in the cult and culture of Narcissus in gardens and florists' use. If the Holland bulbs are carriers of deadly pests, those of the Pacific Coast are equally dangerous, and should not be planted in any garden in other sections. We should give up Narcissus and grow other bulbs —if there are satisfactory garden substitutes. For forcing and cut flowers the florists will drop the expensive and unsatisfactory Narcissus and develop other bulbs which are more easily grown and handled. It will be interesting to see what will take the Daffodil's place.

At any rate, until new facts and methods come to light, instead of building up an American Narcissus industry, or protecting us from foreign pests carried by it, the FHB fiat has simply legislated one poor bulb out of cultivation. If this be a quarantine, may we have no more of them!—STEPHEN F. HAMBLIN, Cambridge, Mass.

In all its wealth of decorative detail, this damask shows its kinship with the masterpieces of that glorious epoch, the 17th Century, the while its coloring proclaims it distinctly modern

Designed in the ornate style of Louis XIV, le Roi-Soleil

This damask has the vivid, glowing color of modern art

N the golden days of France's history, when the sun-king's court at Versailles w; the most splendid of all Europe, all cre- atre genius was bent to one end and one er alone—the achieving of luxurious gran- der and magnificence.

ınd we, today, attain our loveliest and nst interesting decorative effects, by adapt- n to our own modern uses their matchless ceptions of design.

HE style of the period of this greatest - of all French kings is rich, dignified, urious with gold, laden with ornament. Ail in this lovely Schumacher damask, hre is added to this magnificence of design h bold, vivid coloring which distinguishes h art of the present day.

n a vivid lacquer red background—sug- geive of the flaming sunsets of tropic isles — woven in gold a large floral motif char- acristic of the Louis XIV period. Wide stipes (also favored by the sun-king's artisans) are of a clear, vivid green—for greater emphasis, outlined in black.

This most distinguished damask is reversible and may be used for draperies and portières, as well as for upholstering chairs and couches.

Here, in a characteristic Louis XIV interior, this damask, albeit in the design of the period, lends a decidedly modern note with its coloring

By arrangement with your decorator or upholsterer or the decorating service of your department store, you may see this damask and the other distinguished drapery and upholstery fabrics made by Schumacher.

"Your Home and the Interior Decorator"

THE most beautiful effects may be achieved in your own home with this damask, with the expert aid of an interior decorator. How you may, without additional cost to yourself, have the benefit of expert, professional judgment is told in this booklet, which we have prepared—"Your Home and the Interior Decorator."

This booklet, beautifully illustrated, will be sent to you without charge upon request. Write to F. Schumacher & Co., Dept. D-5, 60 West 40th Street, New York, Importers, Manufacturers and Distributors to the trade only, of Decorative Drapery and Upholstery Fabrics. Offices also in Boston, Chicago, Philadelphia, Los Angeles and Paris.

F. SCHUMACHER & CO.

The National Garden Association

Formed to promote the annual observance of National Garden Week

Leonard Barron, F.R.H.S., President

Honorary Vice-Presidents: J. Horace McFarland, Mrs. Francis King, Mrs. Russell Tyson, Mrs. Thomas G. Winter, Mrs. Samuel Sloan, Mr. Frederick Newbold, Mr. Robert Pyle, Mrs. John D. Sherman.

Coöperating Societies: Society of American Florists and Ornamental Horticulturists; National Plant, Flower and Fruit Guild; American Dahlia Society; American Iris Society; Ontario Horticultural Association; American Forestry Association; Women's National Farm and Garden Association; Wild Flower Preservation Society; National Horticultural Society; The Agassiz Association; The School Nature League; Society of Little Gardens.

NATIONAL Garden Week for this year is now a thing of the past but the work started during this week in these many hundreds of communities has become part of the living present with a definite program for the future. Such a week once observed brings a growth to each community that will go on with the years. Flowers planted, trees set out, streets improved, yards and lawns beautified, school gardens started—this is part of a forward-looking effort cumulative in its every phase. Each year's observance of this week sees the formation of many new garden clubs and brings nearer to realization the practical goal of The National Garden Association:

A garden club in every city and town.

A federation of such clubs in each state.

A national federation of garden clubs.

Why practical? Because there is nothing more constructive from a civic point of view than a garden club! Such a club does not only grow flowers in its members' gardens; it interests itself in the beauty and cleanliness of its town, in its public parks and playgrounds, in conservation and reforestation, in nature preservation, in training the children in all these and kindred subjects, in preserving the scenery, in saving, in fact, as much as possible of the natural beauty of our land to the end that we may not only enjoy this beauty ourselves but that when we turn this country over to our children and our children's children they will not find that we have robbed them of their natural heritage.

BECAUSE The National Garden Association realizes how intensively and comprehensively the many phases of this work are being taken up by the garden clubs all over the country, we feel justified in claiming, that the formation of such clubs is a matter of national importance and should be one of national thanksgiving and of interest to every citizen.

Each year National Garden Week stimulates this work and each year sees its broad program carried out more fully. We have spoken of the various endeavors of these many clubs and nothing could more fully prove this wide range of their activities than the special interest this year of the garden clubs of Virginia. This is the preservation of the historic trees set out at Monticello by Thomas Jefferson. Here, with his own hands, he planted Lindens, Purple Beeches, Maples, etc. These trees have missed his care; decay has started where wind-tossed limbs have split off. Seeing this, the members of the garden clubs throughout the state have come to their rescue. To get the funds necessary for this, they are giving a flower show and fete on May 7th and 8th, and best of all, are selling tickets for a tour of some of the most exclusive and interesting old homes and historic gardens in this neighborhood.

The particular activity of the garden club at Longview, Washington, is home beautification, stressing especially well-kept lawns and gardens. This is done to broaden the civic-beauty plan sponsored by this new western city, which has developed as part of this plan a park one and one-half miles long around a chain of three lakes. This is the central beauty spot of the town and in every step of this work, the garden club has coöperated, holding flower shows and giving prizes to arouse the active interest of each citizen. To have a town definitely planned in this way so that its growth may bring loveliness to its every quarter is indeed constructive civics of a high order!

IN XENIA, Ohio, the work accomplished in just two short years by the garden club points the way very clearly to what may be achieved by any garden club anywhere. Starting with but a few members, they first secured Roses to give away or sell for a few cents so that there would be no excuse for lack of beautiful gardens. In this way, they gave away four hundred Climbing American Beauty Roses, selling another hundred at cost to cover their initial expense. The next step was to choose a town-flower and to see that this was generally planted throughout the city. The flower chosen was the Zinnia and beds of this were planted in some of the worst streets in town. These beds were made along the curbs. Two vacant lots were next secured where annuals could be grown to supply the hospitals and hundreds of sick and shut-ins. Always were additional beds of Zinnias being planted and the city council was prevailed upon to help in improving many places throughout the town. Bulbs, plants and shrubbery were bought and sold at wholesale prices until home-beautifying became a fact and not a mere slogan, while the small group of earlier members had become a powerful organization of 250! And this in two years!

From Bronxville, New York comes a story of the plan of the Garden Club for teaching its members, that may hold a fruitful suggestion for other clubs. Here the Garden Workers Club was formed and with Mrs. Louise Beebe Wilder as one of its officers something broadly constructive was sure to evolve. In this club, each member takes some garden subject, or plant that is of general interest and makes herself an authority on that topic! She reads, studies it, lists books on it and becomes a human reference book on this subject for her club. This is a plan that any club would find stimulating and helpful as it would also this club's system of filing all papers read at the meetings and the card-indexing of printed articles of special garden interest.

With the coming of another spring season, comes also renewed interest in the question of billboards plus renewed need of activity in enforcing their restriction to certain localities. From a bulletin issued by the Municipal Art Society of New York City, we quote the following, showing how each citizen may help to regulate in some measure this wide-spread evil of modern commerce:

First, by securing the passage of laws for the stability of billboards, their construction so as not to make fire fighting more difficult, so as not to conceal filth, etc. In so doing they should, incidentally, have regard to the appearance of the billboard.

Second, by forbidding advertising on public property, making it a crime, giving any person the right to remove it, and making it a presumption that the person advertised authorized the placing of the advertisement on the property.

Third, by making it a crime to place advertisements on private property without the written consent of the owner, and making it a presumption that the person advertised authorized the placing of the advertisement on the property in question.

Fourth, by passing state laws authorizing zoning by all the local governments within the state, and seeing to it that proper zoning regulations under which general advertising is confined to business and industrial localities are enacted by all these governments.

Fifth. By seeking to find occasions (as was done in New York) in which objectionable advertising can be regulated or forbidden on private property, passing statutes for that purpose, and seeing to it that these statutes are vigorously supported in the courts; or by passing a constitutional amendment more or less like that in Massachusetts for the regulation of outdoor advertising generally.

For free Constitutions, By Laws and Programs for Garden Clubs, address The National Garden Association,

Garden City, New York,

Ellen D. Wangner, Sec.

GARDENS TO BE VISITED

SEVERAL of Long Island's loveliest gardens are again to be opened to the public during the months of May, June, July and September for the benefit of the Wayside Home School for Girls at Valley Stream, Long Island, N. Y.

In the 1926 season are included several gardens that have been shown in former years, for the great variety of plants and flowers, reaching the climax of beauty at successive stages of the spring and summer, gives them such widely varying charm and interest that justice could not be done them in a single visit.

The following gardens will be open during May:

May 6th—Garden of Mr. and Mrs. Walter Jennings, Cold Spring Harbor, L. I.

May 13th—Garden of J. E. Aldred, Glen Cove, L. I.

May 20th—Garden of Joseph P. Grace, Manhasset, L. I.

May 27th—Garden of Irving Cox, "Meadow Farm," Mill Neck, L. I.

Select Pondosa Pine for its beauty and economy

WHAT of the lumber for that home of yours? Will it be as good as Pondosa, Pick o' the Pines? As beautiful? As economical and lasting? Pondosa is the choice of thoughtful home planners. It lends itself to practically every building purpose. Clean in grain and silky-smooth, it delights the eye and is "pleasant to live with." It takes paint avidly and because of this needs paint less frequently. It is light, yet strong. It is economical because of the abundant supply; the huge cost-lessening production and selling methods of modern mills; its availability through five great transcontinental railroads.

Choose Pondosa Pine with assurance that each trade-marked stick is rigidly *graded,* thoroughly *seasoned* and carefully *milled.* For sale at good lumber yards everywhere. Write for interesting free booklet, "Bingo of Flathead." Address Dept. 12, Western Pine Manufacturers Association of Portland, Oregon.

Write for this booklet

Pondosa Pine

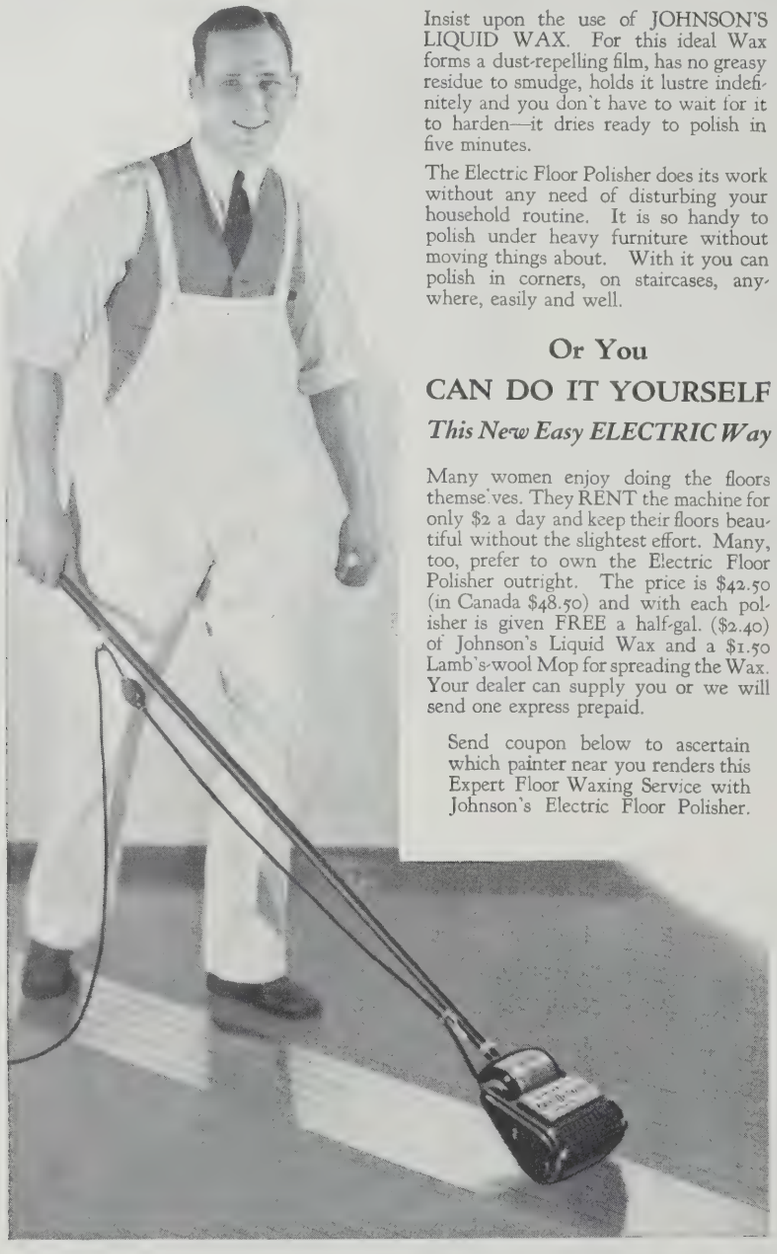
The Pick o' the Pines

YOUR PAINTER CAN

Beautify Your Floors

as only WAX POLISHING will!

ARRANGE now with some progressive painter to create glossy loveliness for ALL your floors. Using the wonderful new JOHNSON'S WAX Electric Floor Polisher, he will deep-burnish lasting lustre into the very substance of wood, linoleum, tile, marble, etc.,—and it will cost you but little, because this machine does the work ten times quicker than hand methods.



Insist upon the use of JOHNSON'S LIQUID WAX. For this ideal Wax forms a dust-repelling film, has no greasy residue to smudge, holds it lustre indefinitely and you don't have to wait for it to harden—it dries ready to polish in five minutes.

The Electric Floor Polisher does its work without any need of disturbing your household routine. It is so handy to polish under heavy furniture without moving things about. With it you can polish in corners, on staircases, anywhere, easily and well.

Or You

CAN DO IT YOURSELF

This New Easy ELECTRIC Way

Many women enjoy doing the floors themselves. They RENT the machine for only $2 a day and keep their floors beautiful without the slightest effort. Many, too, prefer to own the Electric Floor Polisher outright. The price is $42.50 (in Canada $48.50) and with each polisher is given FREE a half-gal. ($2.40) of Johnson's Liquid Wax and a $1.50 Lamb's-wool Mop for spreading the Wax. Your dealer can supply you or we will send one express prepaid.

Send coupon below to ascertain which painter near you renders this Expert Floor Waxing Service with Johnson's Electric Floor Polisher.

JOHNSON'S LIQUID WAX

S. C. JOHNSON & SON, Dept. G. M. 5, RACINE, WISCONSIN
"The Floor Finishing Authorities"
(Canadian Factory: Brantford)

I am interested in having my floors waxed with your new Electric Polisher. Please give me the name of a Painter in this community who can render this service.

My Painter is.....
My Name.....
My Address.....
City and State.....

GARDENING FOR THE BEGINNER

The Month's Reminder—May

As to Time and Place: In gardening practice a date can only be approximated as seas vary and local conditions will have some influence. Generally the latitude of forty degrees at level and a normal season is taken as standard. Roughly, the season advances or recedes fift miles a day, thus Albany would be about ten days later than New York (which is latitude The latitude of Philadelphia is a week earlier. Also allow four days for each degree of latitu for each five degrees of longitude, and for each four hundred feet of altitude. Latitude 40 pa through Philadelphia, Pa.; Columbus, Ohio; Richmond, Indiana; Quincy, Ill.; Denver, Col.

How to Use This Guide: Suggestions as to the most important things of the month given in this department so as to "remind" the gardener of the current duties. For routine tails of such things reference should be made to standard handbooks and guides. It is impossible to make a complete manual of practice in each number of a periodical magazine. Yet tim articles will be found elsewhere in each issue, and references to back numbers will often solve immediate question. Moreover, the editorial staff stands ready to help any reader with perso advice by mail. A self-addressed stamped envelope should be enclosed with the question.

Who Writes This: The advice and instruction in this department are the gleanings of m years' experience in practical gardening matters by competent amateurs and others who h "been through the mill." The contributions are made from various sections of the country: example, Mr. Jesse A. Currey contributes from Oregon; Mr. Theiss from Pennsylvania; Mr. He Gibson from Pennsylvania (formerly from New York); Mr. Sherman Duffy from Illinois; Mr T. Barnes, out of a world-traveled experience; Mr. A. Kruhm, from an extensive Eastern acqu tance; Miss Ethel Hutson from the far South; Mrs E. Urquhart from California and, in addit occasional notes from elsewhere and by the editorial staff and associated contributors of experie

SHRUBS and HERBACEOUS plants, as well as the bulbs, ha bloomed, and more are to come. Is their arrangement sa factory? Don't call in your friends and ask their judgme Just watch the garden from day to day as the season advanc make notes, and some little sketches of how the various plan particularly the perennials, may be moved to form a more beauti picture. It is the greatest recreation in the world; all the worries the house and office will roll off your mind. An hour every day v prove a wonderful tonic.

As the early spring shrubs finish blooming, prune them. Do shingle them, cutting off the tops to a set form; rather take out crow wood here and there—always cutting off at a branch. It is usuall thinning job. Done right no one will know that any wood has b taken out. New growth means more flower buds for next year's bloc

CLIMBING ROSES are pruned immediately after flowering. If th are trained to pillars all the old canes can be removed; the new grov will be sufficient for a good crop of bloom next year.

Mildew is a tremendous handicap to some climbing Roses; infec plants fail to bloom. Dusting with sulphur overcomes this. One two applications is usually enough and it insures better foliage u cold weather.

The bush Roses are subject to mildew, black spot, and chewing sects. Here again the sulphur stops the disease and if arsenate of l is added, the chewing insects disappear too. When plant lice app on the Roses or plants use nicotine. The common form is nicot sulphate; when diluting add a little soap. The alkali in the soap lib ates or volatilizes the nicotine, making it more effective.

BE WEATHERWISE—This is the most tantalizing time of ye The weather is warm, there is bright sunshine and lots of spring show —all of which inveigle us to put in the ground tender things which injured by frost. The danger of frost is not yet over. Down in Pe sylvania there may be no more frosts this year but in western New Y and Massachusetts the apple trees have not yet bloomed and as l as about May 22 six inches of new growth on Oak trees has been kil by a belated freeze in other years. Do not get in a hurry to put such tender things as Cucumbers, Melons, and Tomatoes. If you a beginner watch your experienced neighbors. When the safe ti comes, however, do not delay because every day counts.

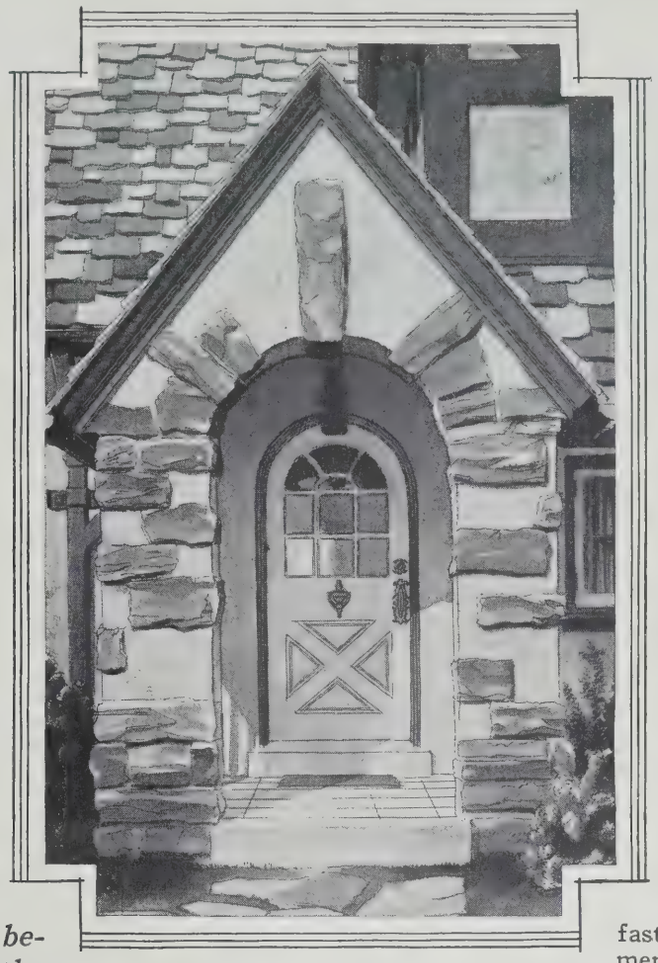
Many a rhubarb and asparagus patch have been ruined by late cropping. A very safe rule to follow is to stop cutting these cr when Peas are ready to pick, which in Massachusetts is about June earlier further south, of course.

It is a common practice to cover newly set plants with paper cor One of the Experiment Stations recently completed tests of their va and has found that it is not a good custom. It retards rather th helps the plant. It is all right at night to avoid chilling the plants wh there is danger of frost, but the covers must be removed during the d

IN THE FRUIT GARDEN keep the Currant leaves dusted with arsen of lead to prevent danger from the currant worm. About the ti Strawberry plants are to bloom they should be dusted with a 90 sulphur and arsenate of lead to prevent damage from the weevil wh injures the stem just below the flowers. Keep an eye on the Sw Corn and when the first bit of silk shows puts a 70–30 sulphur arsen of lead dust on them to keep the corn ear worm from getting inside

CABBAGE MAGGOTS spoil Cabbages, Cauliflower and Radishes. G way to control them is a solution of sodium arsenite in water to wh chopped cabbage has been added to make the liquid tempting. I it in shallow pans over which coarse screens—¼ to ½ inch mesh—ha

(*Continued on page 286*)



"COME IN, COME IN"

Pulses quicken and feet hurry before this doorway. Beneath the sheltering porch there is a handle built for friendliest gripping. A cheerful knocker waiting to be sounded . . . Tlock! Tlock! And then a kindly voice fulfilling a doorway's promise of the home behind it . . . "Come in, come in."

* * *

THIS doorway has to an unusual degree the friendly quality. Even its Sargent hardware expresses cordiality. But this style of architecture has no exclusive rights to hospitality. *Your* doorway, whether it be Colonial, English or Spanish, mansion or cottage, can be cordial too. From Sargent locks and hardware of solid time-defying brass or bronze you may choose for it just the correct designs, graceful and friendly.

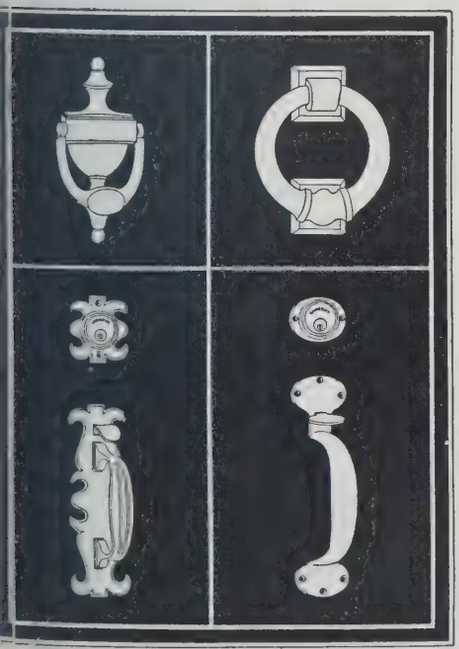
The Sargent handles and knockers pictured owe their inspiration to fine pieces of bygone days. Yet they are not antiques in any sense of the word. Twentieth Century craftsmanship has endowed them with new convenience, greater smoothness in operation. It has connected these handles with the most dependable protection of all time—the Sargent Cylinder Lock. This lock may be master-keyed with the Sargent Cylinder Locks at side, back and garage doors—so that one key will open all.

For the doors inside your home

Probably nothing in the home gets so much usage as the hardware on interior doors. It is a grievous error, then, to throw off care when entrance door hardware has been chosen. Interior lock sets, knobs and hinges, or levers and fasteners for French doors and casement windows, cannot be too carefully selected. They cannot be more wisely selected than from the Sargent line.

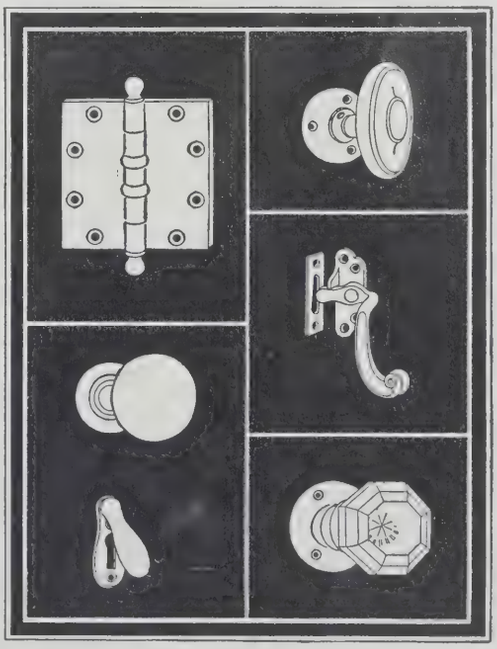
Choose them with your architect

At the very beginning plan for Sargent locks and hardware on every door and window in your home. Your architect will gladly help you select appropriate designs. Write for the free Colonial Book. Sargent dealers will show you many other delightful styles. Sargent & Company, *Hardware Manufacturers,* 48 Water St., New Haven, Conn.



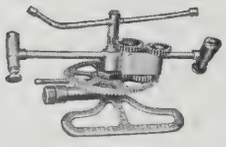
Sargent handle No. 2061 at the left is made in brass or bronze. Knocker No. 7 directly above it is the popular new design in bronze. Handle No. 4061 is a most pleasant variation which may be obtained in white bronze finished to resemble forged wrought iron, but with the advantage of being rust-proof. Ring knocker No. 32 is appropriate for the heavier English doors.

SARGENT
LOCKS AND HARDWARE

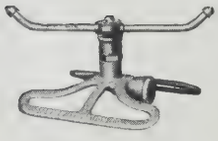


Where silence is golden, use this never-sagging, ball-bearing Sargent hinge of solid wear-resisting brass or bronze. It is made for entrance as well as inner doors and for doors of closets and cupboards. Under it is small brass knob No. 1608 with "tear-drop" key plate No. 816. Oval knob No. 1984, casement fastener No. 389, and cut glass knob No. 2018 are shown at right.

A SKINNER SYSTEM Sprinkler for *every Shape and Size* of Lawn and Garden



Mor-Rain Sprinkler



Roto-Rain Sprinkler

HAVE you an irregular space to be watered? Have you a narrow strip of lawn or an odd shaped garden that needs sprinkling? Have you large open areas that must be irrigated? Have you newly sown grass or flowers that require the gentlest of sprays?

Or have you a vegetable garden in which you take pride—a garden from which you want crops that grow rapidly, mature early, grow abundantly—a garden that is immune to hot suns, long droughts, early frosts?

Many Types of Sprinklers

Whatever the size, shape or character of your lawn or garden, there is a Skinner System Sprinkler especially designed for it. Each type—and there are many of them—is built to do a special work and to accomplish a definite result. Each type provides the maximum of irrigation efficiency at the minimum cost. Each type represents a great forward step in enabling you to produce the kind of lawn and garden that you have always wanted, but never before could get.

Send for this book — it's Free!

Your Guarantee of Quality

Skinner System Sprinklers are the product of an organization, that for more than a quarter of a century has pioneered the way to better watering and more beautiful lawns and gardens. It has contributed more than all other concerns combined in developing and perfecting irrigation devices. And to-day, its experience, equipment and financial resources insure its continued leadership, which is your guarantee of quality and service in any type of Skinner System Sprinkler that you may choose.

Get These Books Free

Our new booklets, one on lawn sprinkling, the other on garden watering, are now ready for you. They contain information and suggestions that will help solve your watering problems. We'll send either one, or both, to you, free. Write us to-day and you'll get the one you want, or both if you wish, by return mail.

THE SKINNER IRRIGATION CO.

501 Water St. Troy, Ohio

(Continued from page 284)

been placed to keep out birds and domestic animals and fowls. A other way is to make up a solution of corrosive sublimate—one ounce ten gallons of water. A quarter teacupful poured on the ground abo the stalk of the newly set plant and repeated in ten days prevents i jury. With Radishes the solution is poured along the row. If the sol tion gets on the leaves it whitens them but serious damage is not dor One gallon is sufficient for 20 to 40 feet of row, depending upon the si of the plants. Make the first application as soon as the plants are o of the ground and repeat it in a week; a third application is sometim advisable in another week. A pound of tobacco dust to 30 or 40 fe of row will also give good results.

CUCUMBERS AND MELONS.—Every grower has full knowledge the cantankerous striped cucumber beetle. Down in the evergla district of Florida these beetles are so abundant that Cucumbers a Melons never have a chance. George E. Sanders, formerly provinc entomologist of Nova Scotia has developed a new repellant dust whi was so successful on a few Cucumber plants in the garden of Prof. H. Speer, Canal Point, Florida, that this past winter he grew a half acre demonstrate to the growers thereabout that they could raise cucumbe without any trouble. It has also been successful at Bridgeville, Del ware. Although this dust is brand new, having been developed in 19 and not yet thoroughly tested out, still it is so promising we are passi on the information so that those who like to lead the procession c try it out. As made up it contains sufficient copper to control diseas and furnish the same stimulation they get from Bordeaux mixture.

ASTER BEETLE.—Every year Asters and other garden plants are seve ly injured by blister beetles, sometimes known as aster beetles or c fashioned potato bugs—a long narrow black beetle three-fourths of inch long, that cannot be quickly killed by the common arsenical p sons. J. R. Graham in a recent U. S. Department of Agriculture bul tin recommends dusting with sodium fluosilicate. This material mixed with equal parts of hydrated lime and dusted on the plan Experimental work shows that the beetles stop feeding shortly aft dusting, within an hour or two; but that they do not die for a day two which may lead some users to believe it is not effective. The ri growers, however, of Louisiana have found it a very satisfactory meth of preventing damage to their crops.

NEW FRUITS.—Those of our readers who want to know the latest fruits should secure a copy of New or Noteworthy Fruits VIII, Bulle 531 of the New York Agricultural Experiment Station. Most of t fruits mentioned were developed by the Station. All are outstandi varieties. The President Plum introduced by Thomas Rivers, Sa bridgeworth, England, is one of the best of the hundred or more va eties on the Station grounds.

What is, perhaps, the most interesting fruit is the Medina App a cross between Deacon Jones and Delicious, and exceeds Delicio in quality and appearance and prolongs the season of that very popul variety. Altogether this bulletin describes six Apples, two Pea three Plums, one Cherry, two Grapes, and a Raspberry.

Quillen Raspberry, a cross between Cumberland and Hopkins, an extremely promising new variety because of its resistance to anthra nose, an extremely serious raspberry disease. Prof. A. S. Colby of t University of Illinois, Urbana, Ill., has had it under observation f four years.

WEEVILS.—One of the most aggravating things to the amateur is have a fine set of plums and peaches on that backyard tree droppi off in July before ripening. A little weevil is the cause. It lays eggs on the fruit; a little worm develops and eats its way into the stor Moreover every puncture becomes a point of infection for rot. Spra ing with arsenate of lead when the shucks are dropping—which is abo ten days after the blooms drop—and repeating this at intervals of abo ten days until three applications have been made will prevent damag Blowing that 90–10 sulphur arsenate of lead dust on will also acco plish results.

This dusting-sulphur is a very finely ground sulphur. Mix it wi powdered arsenate of lead in the proportion suggested. Any litt blow gun will put it on or it may be shaken out of a cheese cloth ba

SEEDS TO SOW.—It is time to sow seeds of the late varieties of Cele Cabbage and Cauliflower and make the main crop Potato plantin Study that garden that there may be no vacant places and that t succession of fresh vegetables may be unbroken. Make successi plantings of Beans, Radishes, Lettuce, Corn, and—in the more northe states—Peas. You can pick them until frost.

OLD FASHIONED GARDEN.—"Grandmother's garden was largely perennial garden with annuals mixed in to maintain an unbrok bloom of color. Some of us when we look the catalogue over with idea of buying plants for such a garden find that our funds do not pe mit us to do so. All the perennials with the exception of some of t finer named varieties can be grown from seed. Two dollars spent seed and planted now in a bed where they can be cared for will produ enough plants for a really big garden. Started in May the plants w be big and strong next fall when they may be transferred to the pla of blooming or they may be set in the spring. Put the seeds in the se

(Continued on page 288)

Take 12 Months to Pay for It

Seventeen Hundred Dollars buys it.

Buys the complete materials and full equipment for this Sunshine Shop with its 487 square feet of Perpetual June.

It's the first time a full steel framed Greenhouse built in the thorough way this one is, has ever been offered at anything approaching the price.

It is also the first time we have ever offered it on a divided payment plan.

A plan that enables you to at once have the Sunshine Shop, erected right on your grounds, and take 12 months to pay for it.

Everything is cut and fitted ready for quick easy erection.

Practically any local carpenter can do it.

All the paint, putty, glass, nails, bolts, screws, boiler, heating coils, ventilating apparatus. benches—Everything is furnished.

No extras.

Send at once for full particulars of the divided payment plan and interior views and further facts about the Greenhouse.

If you are not too far from our factory it may pay you to let us deliver and erect the house.

New York 101 Park Ave. | Wilkes Barre 402 Coal Exch. Bldg. | Albany, N. Y. P. O. Box 921

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General Offices and Factory
Elizabeth, N. J.

Southern California Iris Gardens

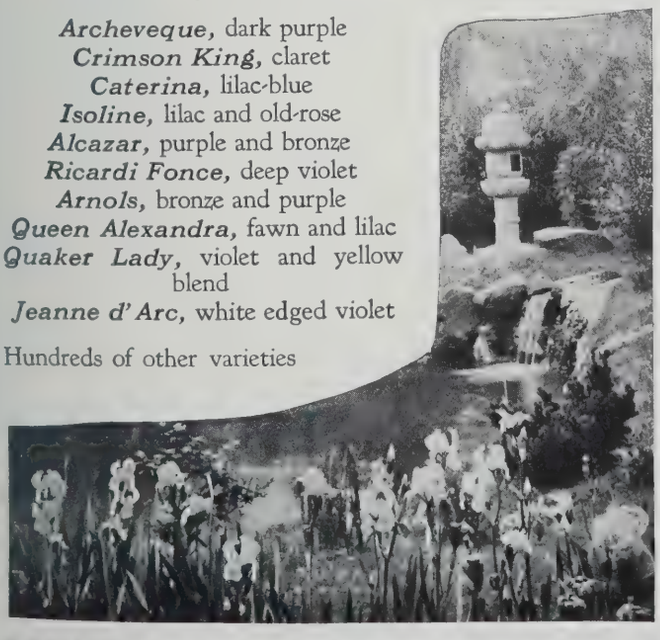
Iris Specialists for Fifteen Years

960 New York Avenue, Pasadena, California

Collection of Ten Fine Varieties for $2.50

Archeveque, dark purple
Crimson King, claret
Caterina, lilac-blue
Isoline, lilac and old-rose
Alcazar, purple and bronze
Ricardi Fonce, deep violet
Arnols, bronze and purple
Queen Alexandra, fawn and lilac
Quaker Lady, violet and yellow blend
Jeanne d'Arc, white edged violet

Hundreds of other varieties



A Garden Full of Dahlias for $3.50

New and Rare Exhibition Dahlias

Few flowers, whether used for garden decoration or principally for cut blooms to decorate the home, are as responsive to simple garden culture as our Modern Dahlia. It has made wonderful advancement in size of bloom, habit of growth and profuse blooming qualities.

In order to further its now great popularity, we are offering this collection of

12 Dahlia Tubers for $3.50

—one each of 12 distinct varieties, not labeled, which if purchased separately according to name would cost not less than $10.00.

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Mention this advertisement, and send check, money order, cash or stamps, or call at our store, and secure this exceptional collection, sent prepaid to any point in the United States.

Our 1926 Spring Seed Annual sent on request

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The Thatcher Round Boiler has an unusually high ash-pit, allowing better draft and perfect combustion of the fuel, even around the edge of the fire-bed.

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And the under side of the steam dome is corrugated. This gives nearly twice as much radiating surface. That's another coal-saver.

Write for our interesting and illustrated booklet, explaining in detail why it will be more economical for you to install a Thatcher.

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21 West 44th St. *Since 1850* 341 N. Clark St.
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THATCHER
BOILERS · FURNACES · RANGES

(Continued from page 286)

bed as soon as they are ripe. This means you may be planting seed most of the summer. It is worth while, for seeds sown up to about August first will make good blooming plants for another year.

SEED QUALITY.—"The Quality of Packet Vegetable Seed on Sale in New York in 1924" is the title of Bulletin 533 recently issued by the New York Agricultural Experiment Station, Geneva, N. Y. Six hundred packets of seeds were collected of which 382 or 63% were below the very reasonable standards adopted for the season, and which represent the average of standards in use in other states. Looking over the table of results one is led to believe that one should buy the best seed of some reputable seedsman and avoid the packet seeds found in boxes in grocery, hardware, and other stores.

P. T. B.

California Garden Calendar

CHRYSANTHEMUMS may still be started by making cuttings from spring shoots coming up from the roots of last year's plants. Plant them in rows or in boxes until rooted when they may be set out in the garden. Arrange them according to height and color, placing the low-growing pompon varieties in front.

The blooming shoots on new Carnation plants should be cut back as they will become more stocky and bloom better. Give the Sweetpeas plenty of water and cover the roots with a mulch of old manure or grass clippings to prevent evaporation; also keep the foliage well drenched in case red spider appears, and do not allow the seed pods to mature, as they will prevent continuous bloom.

If Smilax begins to show new growth, cut away the old, thin out and tie up the new growth on strings to prevent tangling; cover the bed with old manure. Overhaul the tub and porch plants, putting in new soil when necessary and renewing spent or overgrown plants. Give them liquid manure and do not let the soil bake around the roots. Nitrate of soda is a good stimulant and helps the plants to assimilate their food; it may be either dissolved in water or lightly sprinkled on the soil, watering afterward.

Thin out all annuals sown in the open ground when two or three inches high, taking care to water the ground before pulling up the seedlings. Columbines, Sweetpeas, Cornflowers and Primroses may be sown now for late autumn and early spring blooming. The seeds should be planted deeper in the ground than in the early spring as the layer of moisture is lower down. There is more moisture in the air in the coast regions of California than in the interior, and the summer temperature is lower, so that seeds may be sown later and plants may be set out later along the coast than in the hotter and dryer interior valleys.

Conservation of moisture must begin in May and continue until the early rains in September. The moisture already in the soil may be retained by constant weeding and cultivation and by mulching the beds with old manure, straw or grass clippings.

It is advisable to keep a certain amount of seedlings of both annuals and perennials in reserve to replace any that may die or fail to grow well. Mexican Poppy (Hunnemania) may be sown now, as it requires heat for germination, and as it has a long tap-root, it must be sown where it is to grow and not transplanted.

Violets should now be taken up, divided and the runners removed. The beds should be well fertilized and kept watered during the summer to insure early autumn blooming. Spring flowering bulbs should not be taken up until the foliage matures and turns yellow, when they may be stored in a cool, dry place until autumn. If the space is needed before the foliage matures thay may be heeled in in an empty bed or trench.

Daffodils, Narcissus and some of the other bulbs may be left in the ground all summer if space permits, and not too crowded, but Hyacinth must always be taken up and replanted. If the bulbs are left in the ground shallow-rooted annuals may be sown over them.

E. U.

Reminder for the Far South

THE Weather Reports for "New Orleans and the vicinity" show less rainfall in May than any other month, so you will find your flower beds looking parched and dry even though you may give them a sprinkling with the hose every day. The hot, dry winds cause excessive evaporation and it is far better to *soak* the garden twice a week and gently work the top soil the day after watering, during May.

Gardens are at their height of beauty here in May, but blossoms of the more delicate plants do not last long after June and we must prepare for midsummer and the fall months.

Zinnias can be planted, in this climate, every month in the year except December, to give bright spots of color. They require almost no attention, while Dahlias, though far more beautiful, must receive care to get good results. Plant Dahlias toward the end of the month.

(Continued on page 292)

Distinctive Awnings for Homes of Distinction

WHILE still having the *utility* which makes awnings such a universal comfort, the new SWANFELDT AWNINGS add an *artistic touch* to the home, never before possible! In fact, the latest art of exterior decoration specifies SWANFELDT AWNINGS regardless of whether the windows, terraces, balconies or entrance require protection from sun and rain.

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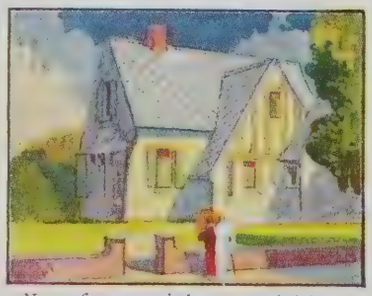
Once you have roofed or re-roofed with these shingles you are through with roof expense. Johns-Manville Asbestos Shingles can also be obtained in the familiar rectangular shape—and in many colorings.



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Your 500 BULBLETS FREE

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Opportunity to enjoy developing your own wonderful gardens from Champion Gladiolus Bulbs

STUDY carefully these unusual offers. And remember that these are large, blooming size bulbs of the finest quality obtainable, at prices far below their real value and with hundreds of bulblets included! 500 bulblets of choice mixture of many varieties and colors with every $5 order. 1000 bulblets with every $10 order. 1000 bulblets of Elmwood Terrace Mixture and 1000 bulblets from prize-winning Primulinus Hybrid Mixture with every $15 order. Valuable additional inclusions of large size bulbs with orders of $20 or more. Cultural directions, as adopted by the American Gladiolus Society, with every order.

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Make out Your Order Now from This Choice Assortment—or Send Us List of Bulbs You Desire and Get Special Quotation

Special Elmwood Terrace Mixture in many varieties, 50 bulbs for $3 and 100 bulbs for $5. Primulinus Hybrids in large range of colors, 50 bulbs for $2.50 and 100 bulbs for $4. One bulb each of following 20 varieties for $3; three bulbs of each for $8.50. Six bulbs of any one variety at one-half the dozen price.

Crimson Glow—Enormous glowing crimson—$1 doz.
Herada—Pure glistening mauve—$1 doz.
Evelyn Kirtland—Rich rosy pink with scarlet blotches—75c doz.
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Mrs. Dr. Norton—Delicate silvery white, flushed pink—$1 doz.
Marshal Foch (K)—Ruffled salmon-pink—$2.50 doz.
Mary Pickford—Pure white, gold throat—$1 doz.
E. J. Shaylor—Gigantic ruffled rose-pink—$1.50 doz.
Mrs. F. C. Peters—Wonderful rose-lilac with velvet throat blotches—$5 doz.
Mona Lisa—Ruffled silvery pink—$2 doz.
Mrs. Frank Pendleton—Light pink with dark blotches—80c doz.
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Diener's American Beauty—Magnificent—$3 doz.
Pythia—Gorgeous rose red—$3 doz.
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Jewel—Primulinus, pink with gold throat—$1.50 doz.
Topaz—Primulinus, early large topaz-salmon—75c doz.
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Gladiolus Los Angeles

THE "CUT AND COME AGAIN" GLADIOLUS

Color: Shrimp pink tinted orange with orange tinted carmine throat

The most beautiful gladiolus yet produced.

Best of all, this is the long desired "cut and come again" or "ever-blooming" gladiolus because when the first spike is cut if the leaves be left on the plant a fair proportion of them send out one or even two branches from the side of the old cut stem. There will be enough of these in a bed to make a good showing for about twice as long as the ordinary gladiolus. The importance of this for use in garden or for cut flowers is readily seen.

Price postpaid 75c each; 3 for $2.00; $7.50 per dozen; $60.00 per hundred

Send for catalogues, Dutch Bulbs, also Iris, Amaryllis, Crinums, and "New Creations in Gladiolus." Growers and dealers send for wholesale offer.

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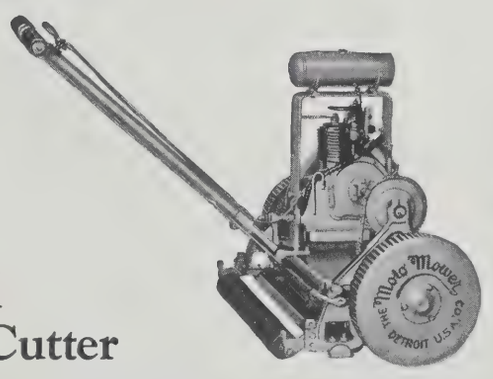
Moto-Mower

TRADE MARK

A Twist of the Wrist Guides It



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The Moto-Mower will give you a nice clean job with little effort. It is fast, powerful, simply built and entirely "fool-proof." Controlled by two rubber handle-grips. A single twist causes it to stop, start or turn in any direction—on its own power. Cuts close to trees and flower beds. Send for our latest catalog—today.

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A real cure for *unsightly* floors

Beautiful floors are now easy to get and retain. But only the Ponsell combines in one machine the three essentials; polishing—refinishing—scrubbing. . . .

No. 1—**POLISHING**

Thirty minutes a month—and the Ponsell will keep any floor in your home as spotless and bright as your dining-room table. Regardless of floor, whether hardwood, parquet, tile, linoleum, cork or cement, the use of the Ponsell will keep it *new* and *spotless*. You can guide the machine gently along with a finger tip. Gone is the backache of hand polishing. And what an improvement! From baseboard to baseboard the floor is a joy to behold; under the furniture, between the rugs—all cleaned, waxed and polished.

No. 2—**REFINISHING**

You can do over a stained, scratched hardwood floor entirely with the machine. No dirty, hard handwork! You just attach the steel wire brush and go over the floor, having previously applied a coat of Ponsell Remover. The old finish, the old dirt are entirely removed. Having obtained a fresh, clean wood surface, you then attach the sandpaper pad, which smoothes and brings out the grain. All that is left is to apply a coat of wax (the machine does that too) which is quickly brought to a lustrous polish with the polishing brush.

No. 3—**SCRUBBING**

Just as easy. All you do is to attach the scrubbing brush to the Ponsell and watch the kitchen floor turn white as snow. No sloppy, dirty mop.

Think of the joy, the delight—of Ponsell appearing floors. Think of the money saved. But best of all, think of all the ancient backbreaking hand methods which are now entirely done away with.

The Ponsell is moderately priced. Operated by electricity. Connects to lamp socket. Consumes less than three cents worth of current an hour.

No skill or strength required.

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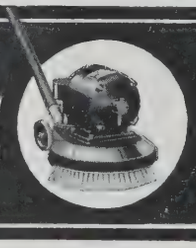
You will promptly receive full information, prices and list of sales offices where you can secure a free demonstration right in your own home—or a 10 day free trial if you are located too far from any branch office. Remember—the Ponsell will polish, refinish and scrub. Once it is in your home you can always enjoy beautiful floors.

PONSELL

ELECTRIC FLOOR MACHINE

Scrubs, Polishes, Refinishes For You



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Please mail free illustrated folder and full information and prices about your electric machine for scrubbing, refinishing and polishing floors of all kinds.

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(*Continued from page 288*)

In this climate, the late Mr. Eugene Roberts told the New Orleans Garden Society, "The bed should be thoroughly broken up to a depth of at least one and a half feet, and some river sand or sharp sand mixed with it to make the soil somewhat light in texture. As Dahlias are inclined to take on a very rank growth here under any conditions, I do not believe that it is advisable to use any fertilizer in preparing the bed unless the soil is exceedingly poor. . . . The plants should be pinched back constantly, otherwise they will have a tendency to form buds, and begin blooming before the middle of September." They should be thoroughly watered during a dry spell.

Plant Balsam, Torenia, Gomphrena, Petunia, Gaillardia, and Coleus again to get a second crop, and put in one or two more rows of Gladiolus bulbs, planting about two weeks apart to give continuous blooming.

Single yellow Cosmos begins to bloom here when only six to eight inches tall and continues to be covered with blooms until a heavy frost kills it, growing sometimes as high as eight feet, if not cut back. A package of mixed Cosmos will repay you may times for the trouble of planting, but as they blow down easily in our fall winds, it is well to plant along the line of a fence or where shrubbery protects them from the Northwest wind. The same is true of Sunflowers, the best variety being the one with many small blooms, rather than the one with large heavy heads.

Now is the time to start a water garden and rockery. Though Waterlily roots cannot be gotten from the northern dealers before June 1st., local florists are ready to furnish plants as early as May 1st.

Roses should be frequently worked. If your Roses were well fertilized, as they should have been, when you pruned them back in February, it is time to give them some more fertilizer, a tablespoonful of bone meal to each bush, put in a circular trench about one foot from the bush and worked in so it will not be washed away. If leaf blight, leaf spot or mildew show, spray the bushes once a week with bordeaux. For leaf-eating insects use arsenate of lead paste—one teaspoonful to the gallon of water.

Grapes can be sprayed every two weeks with bordeaux until they begin to ripen. Peaches and Plums showing either San Jose scale on the new wood, or brown rot (soft brown spots on the fruit) or peach scab (black freckles on the fruit) should be sprayed with lime-sulphur, 1 to 20, during this month, but not later. The rule is, "Spray four weeks after the petals fall and again four weeks before the fruit ripens."

Oranges and other citrus fruits should be sprayed regularly with kerosene emulsion to keep down the white fly and sooty mould and scale, all of which will disappear if kerosene emulsion is used.

In the vegetable garden where Potatoes and Onions were taken up, plant Corn and Cabbage, Okra, Pole and Lima Beans, Melons, Cucumbers, Squash, and Pumpkins.

In the field Cow Peas and Crowders can be planted; the latter are the best to be used green.

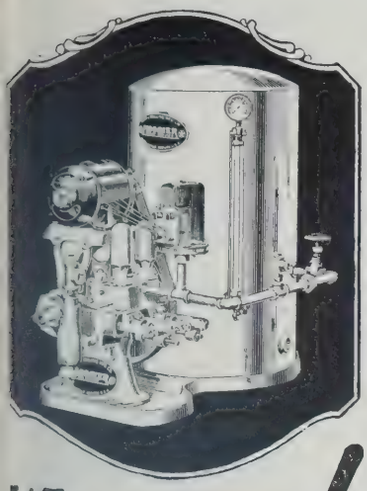
E. H.

Plants From the Florist

DID you try to grow them on? It is not much work. The Poinsettias and the Cyclamen must be kept growing until warm weather comes along, then set outdoors on the north side of the house, or under a shrub for shade. The Cyclamen pot should be sunk in the ground to prevent too rapid drying out of the soil. Both will summer there nicely. Start them into growth next fall for blooming next winter. Astilbe is once more abundant in florists' shops. It is a hardy plant and makes a wonderful display in the garden. Keep the forced plant from the greenhouse growing until danger of frost is over, then set it out where it is to grow, first knocking out of the pot. Tulips, Hyacinths, and Narcissus likewise should be kept growing until the leaves commence to yellow; then set the pots out of the way. Later when the bulbs have dried off they may be removed from the pot and planted in a permanent place. They will not bloom next spring to amount to anything but the following year they should appear to have always grown in that particular spot.

Do not throw away Freesia that has been blooming, but keep growing until the leaves begin to turn yellow, then let up on the water gradually until the leaves have dried up entirely. Then store the pots, soil intact, in a cool, dry place until August, when upon separating bulbs from soil, you will find two or three times as many bulbs as were planted last fall. Separate the little from the big ones. The smaller ones need to grow one year before they are big enough to bloom.

The Palms, Rubber-plants and other window garden plants may have dusty leaves—they need cleaning! Take the plants to the kitchen sink or bath tub, and give them a shower bath, not too strong a stream. Never rub greasy material over the surface of the leaves to make them shine. It clogs the stomata in the leaves. The stomata are pores through which the leaves take in the carbon dioxide from the air and give off the oxygen which has been separated out of the carbon dioxide the plant retaining the carbon to build up tissue. Clogging those pores has the same effect on plants as cutting down a human's capacity to breathe and eat.



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And the Hoosier insures that same faultless service — city water convenience at less than city cost — for years to come. Protected inside and out by the famous GALVAZINK coating, it safeguards your water supply and is practically everlasting.

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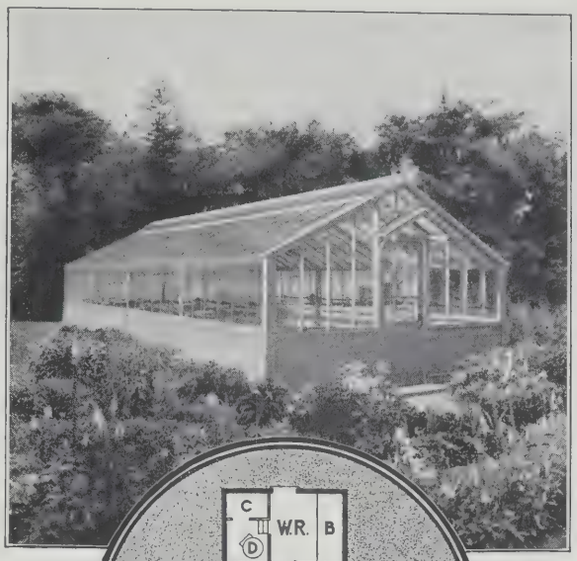

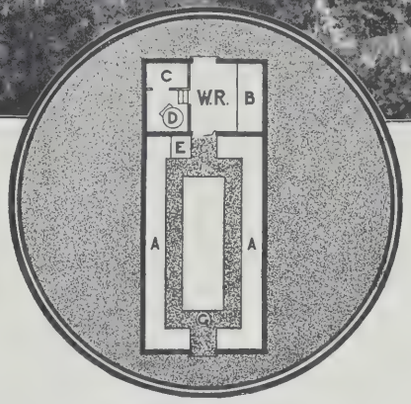

For So Surprisingly Little You Get So Surpassingly Much

Let's for the moment, lay aside the poetical, pleasure giving side of having your own glass covered garden.
Let's temporarily forego, the midwinter dream of arms filled with daisies, dandelions, roses and sweet peas.
Let's for the instant simply set aside thoughts of the many multiplied joys of having your own greenhouse.

Let's look at it from its purely practical side.
$1650 buys for you the complete materials and full equipment for one of these Lord & Burnham greenhouses.
No costly foundations necessary.
No high priced mechanics needed to put it up.
Everything is shipped, ready for immediate erection.

The frame is of steel and the wood all of best greenhouse cypress, exactly as are all our houses.
The boiler that is furnished with it, is none less than a full fledged Burnham which will economically burn oil, coal or coke.
Complete benches are included, also soil bin and potting bench.
Likewise, the ventilating apparatus, hardware, paint, putty, right down to even all the nails, bolts and screws.
No extras.

Here you have a greenhouse made by the oldest, most extensively known concern in the business.
To mention its maker, at once establishes its quality and your discrimination as a buyer.

For early fall use, put this house up in early Summer.
Get your roses and carnations started timely.

For further particulars, interior views and full dimensions, send for special $1650 greenhouse booklet.
$1650 buys the complete materials.
Happy to send you a catalog of our larger more ornamental houses if you wish it.

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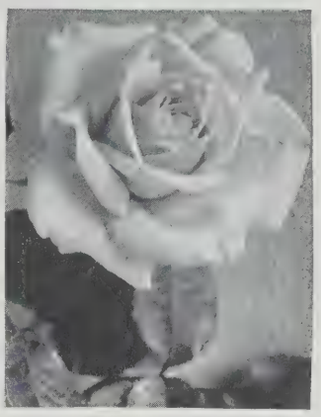
The Invisible film is Your Safeguard



For Prize Rose Blooms use these Unique Companion Sprays

Fungtrogen FUNGICIDE FERTILIZER

Controls Mildew, Blackspot and other diseases. Its Invisible film protects and fertilizes.

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Pints	$1.50	Half Gal.	$4.00
Quarts	2.35	Gal.	6.50

Insectrogen TRIPLE SERVICE FUNGICIDE · INSECTICIDE · FERTILIZER

Combats leaf-chewing insects, caterpillars, slug worms, Japanese beetle, etc. Use alternately with Fungtrogen.

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Pints	$2.00	Half Gal.	$5.00
Quarts	3.10	Gal.	8.50

Aphistrogen APHICIDE FERTILIZER TRADE MARK

The Aphicide Supreme. For all plants subject to Aphids or plant lice.

Postpaid		Postpaid	
4 ozs.	$1.00	2 lbs.	$ 3.85
½ lb.	1.50	12 lbs.	16.00

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All these famous Sprays contain *Hortogen*, a nitrogenous fertilizing element found in no other Spray. All are complete, only water need be added.

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BABY PHLOX

Baby Phlox are young phlox plants (Hardy Perennial) that are 2 or 3 months old. Though smaller than clumps they will grow and flower this year. Any of the following fine kinds, 15c each; $1.50 per doz.; $10.00 per 100, prepaid.

Bridesmaid, white, crimson eye.
Europea, large white, carmine eye.
Miss Lingard, early white, delicate lavender.
Mrs. Jenkins, good tall white.
F. G. von Lassburg, very large pure white.
Elizabeth Campbell, light salmon-pink.
Rheinlander, soft pink, deeper eye.
Rosalind, light carmine flowers, sweet scented.
Rynstrom, carmine-rose.
R. P. Struthers, bright rose-carmine, red eye.
Siebold, orange-scarlet, crimson center.
Eclarieur, rosy magenta.
Von Hochberg, brilliant amaranth-red.
Widar, lavender flowers, dark eye.

My catalogue of perennials, "Hardy Plants for the Home Garden" gladly sent free on request.

W. A. TOOLE *Garry-nee-Dule* **Baraboo, Wisconsin**

Cottage Gardens
Peonies *and*
Imported
Holland Bulbs

Nationally famous for Peonies and other Hardy Perennials, grown in Michigan,

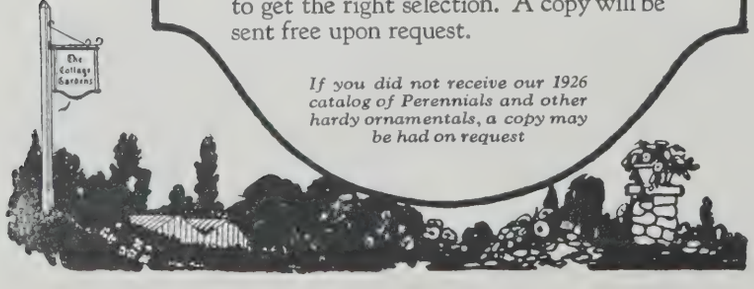
The Cottage Gardens
Lansing, Michigan

thru lifetime contact with the Holland Bulb District, are equally noted as discriminating importers of fine Dutch Bulbs.

℄ *The unquestionable advantage* of making up your Bulb Order early, lies in the fact that you can choose from an extensive "Import-to-order" list and share in the pick of the Dutch Bulb Crop.

℄ Our Peony and Bulb Issue, illustrated in color, comes at a time when these glorious flowers are in bloom, making it easy to get the right selection. A copy will be sent free upon request.

If you did not receive our 1926 catalog of Perennials and other hardy ornamentals, a copy may be had on request



(Continued from page 264)

Angeles) that seed shoots have to burst through the *sides* of the head, to fulfill their function. Better flavored Head Lettuce for midsummer use are All Seasons, of rather drab green appearance, but with a heart of gold; Crisp as Ice, a bronze warrior of elegant flavor and Mignonette, *the* dainty *tid-bit* of the family.

Lettuce will stand an amazing amount of heat if shade is provided during the middle of the day. Cheesecloth stretched over movable frames serves admirably, while my own practice of sowing lettuce or setting the plants between rows of Peas may commend itself to those who believe in intensive cultivation.

RADISH. Radishes is the one midsummer crop in connection with which considerable allowance has to be made as to quality. The crisp little delicacies to which reference has been made in the opening paragraph, are entirely out of the question. One or two hot days in late May or early June will cause them to expand too rapidly, to become pithy or spongy. The solution in this class lies with the slower growing, firmer fleshed sorts such as Long White Vienna, Chartiers or Shepherd, and White Strasburg. Early in May a row or two of White Icicle might be provided to supply crisp radishes until middle of June. But for all later sowings use the three sorts mentioned first which become ready in the order as mentioned.

BEET. All told I enjoy speaking acquaintance with perhaps twenty varieties of Beet. Among all the vegetables I know, none display so great fickleness in behavior. Let the slightest factor be off—be it soil, moisture, or season—and the Beets simply run amuck, in shape, size and quality. The richer the soil, the more difficult it becomes to get the desirable two-inch size at its best and to keep it at that size, for any length of time. Those fortunate in having a reasonably tenacious clay have the ideal soil for midsummer Beets.

Were you to ask me which I consider the best Beet for midsummer use, I would say Edmand's Early which is not early at all, but a good main crop variety. It is of that so highly desired black-red color when cooked. Its flavor is the sweetest at all stages of development and it stands July heat well. Columbia has one characteristic that makes it deserve consideration. It perfects its roots in very irregular fashion, some early, others late. As the result I have pulled fair specimens of it as late as August, to find the flesh very good, but not as good as that of Black Red Ball which I consider the best late of the ball or oval shaped varieties. Sown around middle of May it will reach the desirable two-inch stage around the end of July, and for a month afterward, it will provide beets of exceptional quality, even though some of the roots may become overgrown.

CABBAGE. The only Cabbages that may be sown during May are the midseason varieties, maturing during late summer and early fall—and, of course, these are only fairly good keepers. Both Early Summer and Succession have a more spreading root system than any early or late variety. Their fibrous roots cover a greater soil area than the tap roots of other kinds, hence can gather more moisture when that is at a premium. Another splendid sort in this class is All Seasons which has the enviable reputation of being the best keeper of the three, although it is undeniably coarser. To offset that it must be credited with greater adaptability to a wider variety of soils.

ONION. In growing Onions, the planter's objective may be two-fold—he may either want green "scullions" to be eaten raw or fully developed bulbs for salads. Again we have to call on foreign varieties to do both—and to the student it may be of interest to learn that onions have played a greater and longer part in the history of the human race than any other vegetable. 6,000 years ago a Pharaoh paid money for onions fed to the laborers that built the great pyramid of Cheops. Thus it was in Egypt and the Mediteranean basin that the Onion reigned supreme during periods of antiquity and the offsprings of those very Onions serve us to-day to neutralize similar climatic conditions existing here.

For "scullions" or green onions sow either Prizetaker or Gigantic Gibraltar (both strains of Giant Spanish) when this message reaches you, around April 25th. By July 15th, the plants will be of just about the same size and thickness as those from Onion *sets* of the White Portugal variety planted during April will be during early June.

For fully developed "bulbs," to be harvested during July-August, sow White Queen, White Portugal and Gigantic Gibraltar. White Queen is small, of course, one of the famous "57 varieties" put up in pickling jars, averaging 1 to 1½ inches in diameter—ready August first. White Portugal does better. Semi-round, substantial, 4-ounce bulbs will be ready for salads by middle of August. And Gigantic Gibraltar becomes the prizetaker of the trio through perfecting 7½ ounce bulbs averaging 3½ inches in diameter about a week later. Of course, Texas and Bermuda will laugh at these weight and dimension figures, but this records experience and experiments under poor average conditions in New York State where neither soil nor climate humor the Onion, but the Onion humors human tears. For be it noted that all Onions grown in the temperate zone and particularly the late maturing American strains develop all the fervor of hotter climes in their flavor and temperament.

(Continued on page 296)

AMERICAN NURSERY CO.
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70 East 45th St.

AZALEAS

panese, Chinese, Korean, and ative. Amoena—Hinodegiri hese are evergreen) Arborescens Calendulacea—Kaempferi—ollis—Nudiflora—Pontica—oukhanensis—Rosea—Viscosa—odogawa—Colors White—Pink Flame—Red—Orange and Red-lac. One of each, 12 to 15 in. r $25. Larger sizes if desired.

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Own roots and grafted
EVERGREENS
Shrubs and Trees
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ARDY GARDEN PLANTS
ROSES *VINES*
FRUIT TREES

uality high—prices reasonable

ur price list containing interest-ig and valuable descriptions, is urs for the asking.

American Nursery Company
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Your Kitchen Poorly Ventilated?

If so, we should be glad to tell you how this trouble can be corrected very effectively and at a reasonable cost. Address:

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High Grade Stock of Ornamental Trees and Shrubs

Catalogue on Request

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CHESTNUT HILL PHILADELPHIA

It Is Not too Late to Plant

Have you planted all the shrubs and fruit trees you need? We pride ourselves in being able to keep stock in first class condition much later than most concerns, because of our unique cold storage plant.

We still have a stock of most items and can ship on short notice.

Would like to call your special attention to our offer of that grand new "*Philadelphus virginal*" (Double Everblooming Mock Orange). Our thrifty, bushy two to three feet plants are a buy at $1.10 each, or three for $3.00, postpaid.

Catalogue mailed on request, "Everything that is Good and Hardy."

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PAINESVILLE *500 Acres* OHIO

THE WATER FAN

An Automatic Oscillating Irrigator — *A Portable Rainmaking Machine*

FOR WATERING
LAWNS—FLOWER-GARDENS

FOR LAWN AND FLOWERS

THE WATERFAN

On account of its AUTOMATIC, OSCILLATING action and ability to cover a RECTANGULAR area, is distinctive as a LAWN and GARDEN sprinkler.

IT RAINS AT THE RIGHT PLACE, AT THE RIGHT TIME, IN THE RIGHT QUANTITY

It is a self contained automatic oscillating rain making machine, that distributes the water evenly and gently in FAN-shape, mist-like sprays.

Model	Area Covered	Gals. Per Minute	Water Pressure	Price
*No. 4	8x35 ft.	3	25 lbs.	$15
No. 6	15x45 ft.	3½	25 lbs.	$15
No. 8	25x45 ft.	5	30 lbs.	$18

* No. 4 Model is special.

Send for descriptive folders.
Transportation charges prepaid on cash orders.

FOR VEGETABLE GARDENS

CAMPBELL IRRIGATION COMPANY
Malcolm C. Ludlam, *Proprietor* **Woodbury, N. J.**

Next Month is Rose Month

ARE you prepared for a harvest of beautiful blossoms from your own garden?

Now, during May, you can plant Moon's potted Roses with the expectation of abundant blossoms this June.

Moon's Roses are fully and accurately described in our complete illustrated catalog.

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Ten out of the "Twelve Best Roses," so rated by the American Rose Society, are included in our assortment.

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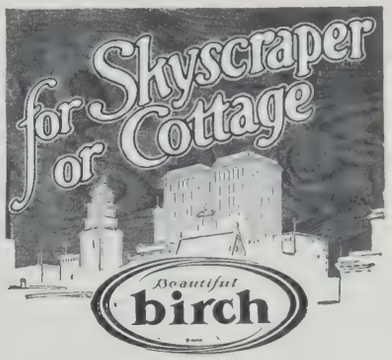
THE WM. H. MOON CO.
MORRISVILLE. PENNA.
One Mile from Trenton, New Jersey



interior trim, doors, floors and paneling justifies the confidence of both owner and builder in its pre-eminence, as an interior finish of great stability and durability. Because of its intense hardness, it "stays put" when once placed, preserving to the last, the fine workmanship which craftsmen take pride in bestowing upon it.

Dining room trim and furniture, all birch

By using Northern **birch** for interior trim, doors, and paneling, you can secure a different treatment for every room—natural finish, stain, or under enamel. The beauty of **birch** floors is fully matched by their serviceability, whether varnished, stained or waxed.

Your home finished in **birch** and furnished in **birch** will ever win the enthusiastic admiration of your friends.

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"Beautiful Birch for Beautiful Woodwork"

Beautifully illustrated booklet "Your Home Deserves Fitments Like These" sent on request

MARKEL
LIGHTING FITMENTS

YOU can add an extra measure of beauty to your home by the installation of Markel Lighting Fitments and at the same time save money. For Markel fitments not only cost less by comparison, but after long years of satisfactory service they will be as thoroughly in good taste as when you install them.

Here are shown selections from the Markel DeLuxe line. Note especially the balanced proportions and characterful designs—and then picture for yourself the beautiful new Moreno finish, a stippled background toned to a warm brown with decorations in polychrome.

Markel fitments can be had in several other widely different lines, each outstanding for value and lasting style in its price class. See these complete lines at the dealer's nearest you before you build, remodel, or redecorate. All fitments illustrated are priced without bulbs.

MARKEL LIGHTING FITMENTS, Inc.
Dept. 5—147 SENECA ST.
BUFFALO, N.Y.

(*Continued from page 294*)

TOMATO In conclusion, a word on early yielding varieties of Toma toes, that greatest of all true American vegetables. You may gather rip Tomatoes beginning July 4th, if you start with sturdy plants (potgrow if obtainable) of June Pink, Bonny Best or Livingston's Globe. Th lastly named I consider the most thoroughbred early pink variety i cultivation. Globe for early, Chalks Early Jewel for succession an Livingston's Stone for the main crop will give you the greatest tri of high quality Tomatoes in existence.

Getting Antique Atmosphere into A Garden House

(*Continued from page 257*)

was a thrilling experiment and the result was a perfectly set pave ment.

The door is made of adzed cypress planks three inches thick wit hand-wrought nails showing inside and out. Its proud boasts, besid the old strap hinges, are a huge wooden lock with a five inch key, an an old thumb latch.

Now that we are within, we can see the fireplace, five feet wid with its crane, trammel, pot-hooks, and heavy oak lintel, at wor again after a century or more of service as a barn stringer. Can yo see in the plaster above the imprints of children's hands, made whe the plaster was soft?

The fireplace supplies all the heat necessary, and is an enticement t foregather and hobnob. On its fire we heat the teakettle, and coo "shop" suppers. The floor is made of discarded pavement flagstone which were heaved into place by the sturdy Italians who built the walls

And now the inside walls: do you remember your grandmother' springhouse walls with the mortar smoothed by the mason's trowel Thus the shop walls are finished, almost smooth but with pleasing littl irregularities, and whitewashed. Here and there are niches like th curry-comb holes of old stable walls—fine nooks in which to store one' favorite treasures. Between the walls and the rafters, which the Ma of the House also patiently adzed, there are long shelf-like spaces which hold a delightful hodge-podge: paint-cans, glass, wire, and boxe of every form of treasure needed in a shop.

Seed Mixtures for Lawn Making

AVERAGE CONDITIONS

Kentucky Blue Grass—5 parts (by weight)
Recleaned Red Top—2 parts (by weight)
Rhode Island Bent—2 parts (by weight)
White Clover—1 part (by weight)

SHADY PLACES

Equal parts (by weight of) Various-leaved Rescue
Creeping Bent
Kentucky Blue Grass

Proper Planting Distances

Street trees—from 30 to 50 ft.
Large shrubs—4 to 6 ft.
Medium shrubs—3 to 4 ft.
Small shrubs—1½ to 3 ft.
Vines on wall or fence—5 to 8 ft.
Vines on ground (trailers)— 2 to 4 ft.
Ground covers—6 to 12 ins.
Large herbaceous plants—18 to 24 ins.
Medium herbaceous plants—12 to 18 ins.
Small herbaceous plants—6 to 12 ins.
Roses (bush)—1½ to 2½ ft.

FRUIT TREES AND BUSHES

Standard Apples—35 ft. apart each way
Standard Pears and Large Cherries—25 ft.
Duke and Morello Cherries—20 ft.
Standard Plums, Peaches, Apricots—16 to 18 ft.
Dwarf Apples and Pears, and Quince—10 to 12 ft.
Grapes—10 ft. apart in rows 10 to 12 ft. apart
Currants and Gooseberries—4 ft.
Raspberries and Blackberries—2 to 3 ft. by 5 to 7 ft.
Strawberries—1 to 2 ft.

NUMBER OF PLANTS TO AN ACRE

40 by 40 ft.— 27	10 by 10 ft.— 435
35 by 35 ft.— 35	8 by 8 ft.— 680
25 by 25 ft.— 70	6 by 6 ft.— 1,210
20 by 20 ft.—110	5 by 5 ft.— 1,745
18 by 18 ft.—135	4 by 4 ft.— 2,725
15 by 15 ft.—205	3 by 3 ft.— 4,840
12 by 12 ft.—300	2 by 2 ft.—10,890
1 by 1 ft.— 43,500	
6 in. by 1 ft.—87,120	

Prindle HUMUS

The Price is the Best and Cheapest
Fertility Maker

DO YOU WANT
More Vegetables
Better Flowers
Larger Shrubs
Bigger Trees
A Finer Lawn
USE HUMUS

: is a permanent investment in soil enrichment

$5.00 for 5, 100-lb. bags
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Send for cultural directions

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GLORIOUS ROCK GARDENS

few dollars will buy seeds of the *Vorld's Choicest Plants.* Hardy Al- ne and Perennial Seeds, from one of e largest and choicest collections in itain, 2,000 varieties, collected from e mountains and plains of the world. st carriage paid. Seeds duty free. mple collection containing 15 dis- nct varieties, $1.50, 32 varieties .50. Also 10 varieties of any of the llowing:—Ten Anemones, Aqui- gias, Campanulas, Dianthus, Gen- ins, Hypericums, Liliums, Papavers, imulas, Saxifrages, Veronicas, or iolas, $1.25. Remittance by Inter- itional Money Order.

ev. J. A. Anderson, F. R. H. S.
len Hall Leicester, England

O. Henry

"Rule 1 of story-writing," id O. Henry, "is to write ories that please yourself. here is no Rule 2. In riting, forget the public."

But the public has not for- otten him. Each year his ooks grow more popular.

T ALL BOOKSTORES

WATER LILIES

Can be planted in spring, for beautiful blooms this mmer. Fine rich colors, refined grance, the rarest and fairest from e largest Water Lily Garden in e Country. Easy to grow. We e authorities on Water Lily cul- re; send today for our illustrated atalog.

The W. B. SHAW
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enilworth, Washington, D.C.

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—Or Any Day!
Flowers from Max Schling
THE beauty and fragrance of this lovely box of roses and Spring flowers carries a message on Mother's Day (May 9th)—or any day—which no other gift can say so well.
Delivered anywhere in U. S. or Canada within two hours
$5 Roses and Spring Flowers as shown.
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New York's Foremost Florist
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Gives the Essential Touch

THE graceful lines of classic jars and vases in the midst of flowers and shrubbery--a bird bath inviting the birds to linger in the garden--a fountain splashing and sparkling in a crystal pool--are but a few of the delightful effects obtained by Galloway Pottery.

A collection of over three hundred attractive numbers is shown in our catalog, which will be sent upon receipt of twenty cents in stamps.

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3214 WALNUT STREET, PHILADELPHIA.

Iris William Mohr

Stately, Bearded

IRISES

These beautiful flowers are the orchids of the outdoor garden—blue, lavender, rose, yellow, bronzes, and exquisite blends.

Write for our Iris catalog, listing 200 choice varieties, including the best from America and Europe and all the wonderful, new, William Mohr Irises.

Sent free on request.

CARL SALBACH
Originator and Grower of New Varieties
305 Creston Road Berkeley, California

Native Flowering Shrubs

From the slopes of the Blue Ridge Mountains you can now obtain nursery-grown Rhododendrons, Kalmias, Mountain Andromeda, the dainty Leucothoe, and many other native shrubs and plants.

To those who are interested in native plants I shall be glad to send my latest catalogue, which includes shrubs, vines, broad-leaved evergreens, aquatic plants and lilies. Have you asked for your copy?

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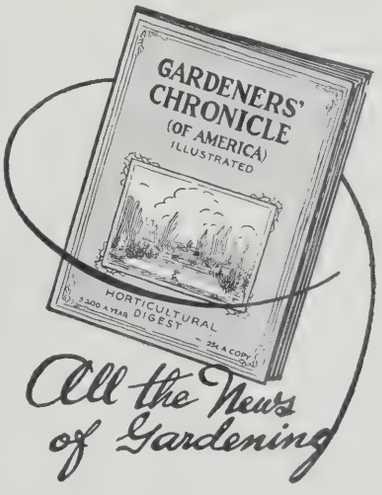


All the News of Gardening

Wishing for Acres

"MY litte garden," writes a flower lover, "is only about twenty feet square, and the Chronicle makes me wish for acres instead of square feet of ground."

The April issue contains: "Back to Nature Gardens," showing what 800,000 Boy Scouts are doing; "Illinois' Fair Estates," based on a visit of the editor. "Who Can Measure the Value of Flowers?" and other feature articles. Then, there are the regular departments full of timely pointers.

7 Fine Numbers for $1.00

While the supply lasts, we'll include the April issue (pub. April 15th) FREE with a six months' trial subscription, making seven numbers for $1.00. Order to-day.

Advertisers are invited to write for Rate Card and Sample Copy

GARDENERS' CHRONICLE
286 A Fifth Ave. NEW YORK
"The ONLY All-Gardening Magazine"

This charming house is the home of Mr. H. S. Pratt, at Westbury, L. I.

This House Has No Heating System—It is Built Like a Fireless Cooker—
It Holds the Heat—

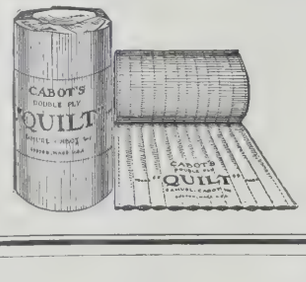
It has been kept warm by the Living Room Fireplace and the Kitchen Range, because it is insulated with

Cabot's *Heat-Insulating* "Quilt"

Mr. H. S. Pratt, the owner, writes: "I am glad to tell you that we (my wife and small baby and myself) have been very comfortable this winter. The temperature keeps anywhere from 60° to 70° during the day and at night when going to bed I bank the fire and the temperature drops down to around 56° to 58°.

The reason is that the heat cannot escape. The Quilt insulation holds it just as a fireless cooker holds heat, and keeps the house warm with one-third to one-quarter less fuel than an uninsulated house will use. About two years' saving will pay for the entire cost of insulating with Quilt.

Send for Free Sample of Quilt and full information.



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Waterproof Collopakes, Cabot's Creosote Stains, Stucco Stains, Old Virginia White, Double-White, etc.

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In less than a generation modern home building ideas have changed the dark, stuffy parlor of grandmother's time into the light, airy living room of to-day. More windows, open and properly screened have caused the transformation.

Higgin All Metal Screens are the logical choice for the modern home. Their narrow metal frames and bronze cloth remove the last suggestion of "stuffiness" that old-style. wooden screens used to give. Light, airy, cheerful, *happy* rooms have many windows—Higgin-screened. Windows of every type—in old homes and new—are made more attractive with modern Higgin All-Metal Screens—the screens that last a lifetime.

Why not let your local Higgin service man help you screen your home in the modern, attractive way?

Write for this interesting book telling how windows, doors and porches should be screened for maximum beauty and convenience.

HIGGIN
ALL METAL
Screens *and* Weatherstrips

THE HIGGINS MFG CO., 511 Washington Street, Newport, Ky.

(*Continued from page 267*)

may be of almost any color except the pastel shades or any great modified color. Warm colors, such as deep yellow, orange, red, cardinal, claret, maroon, flamingo, and the like, are sometimes better f decorative accents in the brunette's room than cooler colors might b The olive brunette should avoid the use of greens, blues, and violet The marked difference in types and the various reactions of color wit them make it impossible to lay down definite rules. The right choic of color is chiefly a matter for experiment. One can only sugge what to look for.

The location of the house as regards climate should be considere with reference to the personal room. The same lady will not want th same kind of room in a Florida winter home as she would in New York even though there is no great change in her individuality wherever sh is. There are cooling arrangements for warm rooms, bright setting for dull rooms, and similar variations for the same woman so that sh need not tire of any one scheme or think that it, and it alone, may b used to express her.

It may be unfortunate, but it is true, that we judge a woman by he surroundings. While we talk about the weather, we are, even uncon sciously, looking at the furniture, at the background that she has a ranged for her personality. To those who are content to live in ugl surroundings we do not attribute the same refinement and charm a we do to those who welcome us in a delightful room where colors blen proportions are correct, and the woman herself is the climax of th decorative ensemble.

Gardening in Oklahoma

(*Continued from page 263*)

quite a social feature, and in many instances home owners are illum inating their gardens at night by well designed electric lanterns.

At the present time, a movement is under way to create a botan ical garden in Oklahoma. This climate has certainly a great advan tage for such a garden, as we do not have to contend with the smok which is handicapping so many such parks and gardens in the older larger cities. This absence of smoke is due to the fact that natura gas is used for heating purposes in place of coal. An experimenta garden of this kind would have a far reaching effect, and would giv material assistance in the creation of the State and City Beautiful.

GENERAL PLANTING MATERIAL FOR OKLAHOMA

SHRUBS. (Deciduous) Spirea, Japanese Barberry, Weigela, Japanese Rose, Philadelphu Russian Olive, Lilac, Purple Plum, Snowberry, Forsythia, Rhodotypus kerriodes, Kerri Deutzia Pride of Rochester, Crapemyrtle, Vitex, Elder, Snowberry, Hydrangea paniculat grandiflora, Hydrangea arborescens, Bush Honeysuckles, Flowering Willow, Flowering Almon Althea, Dogwood, Japanese Quince, Chionanthus virginiana, Euonymus europeus, Tamari Rosa hugonis, Calyanthus floridus, Butterfly-bush, Desmodium.

TREES. (Ornamental) Lombardy Poplar, Catalpa bungei, Bechtel's Flowering Crab, Flowerin Peach, Magnolia grandiflora, Japanese Cherries, Ginkgo, English Hawthorn, Weeping Mulberr Weeping Willow, Evergreen Oak.

ROSES. All Hybrid-Teas.

HARDY FLOWERS. All generally listed in the catalogues with the exception of Delphiniun Forget-me-not, Foxgloves and Cardinal-flower.

EVERGREENS. Chinese Arborvitae in its various forms, Biota nana, Juniper in variety, Colorad Blue Spruce, Colorado Green Spruce, Pines, Balsam Fir, Italian Cypress, Ramsey's Hybri Cypress, Deodar Cedar.

EVERGREEN SHRUBS. Euonymus, japonicus E. sieboldiana, Ligustrum (Japanese, amurens ibota, macrophyllum, lucidum, and sinense).

Twenty-eight Acres Under Glass

THE scale of operations on which the modern greenhouse indus try is operated, is little appreciated. Fancy space under glas equivalent to a small village! Out in Terre Haute, Indiana the J. W. Davis Co. has just completed an "addition" to thei greenhouses, consisting of twenty houses, each thirty-six fee wide and seven hundred feet long—nearly fifteen acres under glass This, added to their former range—about thirteen acres—gives then 28 acres under glass, probably the largest range of greenhouses in thi country. There is an investment of about $1,250,000 in these houses used for growing tomatoes, and cucumbers, which are shipped to Chi cago, New York, Detroit and other points.

To help visualize this tremendous plant consider the following facts There are half a million linear feet of heating pipe; 300 tons of bitumin ous coal are burnt daily, being fed under the boilders by automati stokers. For sterilizing the soil fifty-four miles of tiles are imbedde in the earth. The greenhouse doors are wide enough to permit drivin in with horse and cart or automobile. Ninety cars of manure is th annual requirement for fertilizer which is handled by a clam shell crane A whole carload of wire is necessary to provide supports on which t train the tomatoes and cucumbers. Two hundred men and women look after the growing, picking and packing. Robins winter in th greenhouses and 150 hives of bees living in this shelter insure pollina tion of the flowers.

Schenley Gardens

announces a series of unusual offerings in tulips to introduce a new service for planting beautiful gardens at moderate cost.

Our show collection

Five named varieties selected for their gorgeous colorings, as illustrated on this page:

1. Darwin—King Harold
2. Breeder—Gloria
3. Darwin—Beethoven
4. Cottage—Mrs. Moon
5. Cottage—Orange King

5 each of these 5 varieties, 25 bulbs $1.50

10 each, 50 bulbs $3.00 or 20 each, 100 bulbs $6.00

Special Color Selection Offer

Especially suitable for borders. Giant flowering Darwin, Breeder and Cottage tulips—See colors below.

25 Bulbs (5 each of any 5 colors listed below) $1.00

10 each of any 5 colors (50 bulbs) $2.00

20 each of any 5 colors (100 bulbs) $4.00

CRIMSON	DEEP PINK	PURPLE
SCARLET	SALMON PINK	LILAC
VERMILION	LIGHT PINK	WHITE
YELLOW	BRONZE	BLACK

Every bulb guaranteed to bloom. The finest stock obtainable, directly from our own Holland bulb fields, selected and packed abroad to your order at harvest time. Shipped postpaid, terms cash with order.

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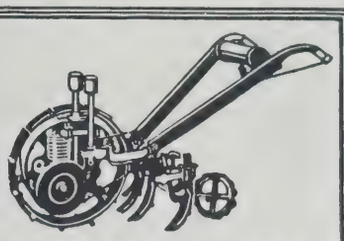

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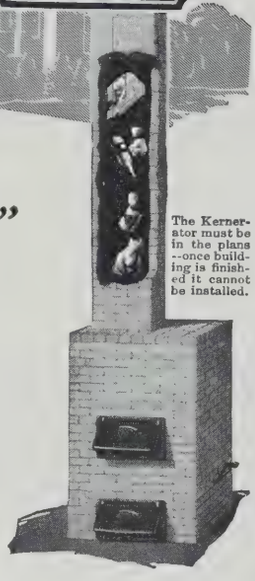

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(Continued from page 254)

narrow? Then select a light paper with a free, flowing design that will lead the eye easily from motif to motif, remembering at all times to suit the paper to the type of room and house. Scenic papers are also extremely effective in halls, especially in narrow halls as its designs seem to open up the walls to let us look out on a far-spread scene.

In many living rooms, a particularly pleasing effect may be gained by using wallpaper in panels and, since curves add so much of grace and interest to any room, the tops of such panels may be curved. In some of the papers, such curves are carefully developed in the paper, so that the effect is that of looking out through curved archways into the woods and fields. In lieu of borders of wood or plaster around these paper panels, a simple border of wallpaper may be found most pleasing. Of such good design are many of these borders that it is quite fitting to use them on a plastered wall, where, if varnished they look like tile. These borders are also a good decorative note if the wall be left plainly papered and the border be used like tiles to frame doorways and windows. Where one has a wall papered in a good plain paper and where some slight change or added color is desired, a panel effect can easily be obtained by using an ornamental border pasted on the wall as if around an actual panel.

So much like a woven material are many of the modern papers that it is rapidly becoming possible to think of them as fabrics, rather than as paper and treat them accordingly. Many of these papers reproduce perfectly the color, design, and actual texture of the well-loved toile de Jouy. This paper makes colorful panels or it may be used in a large dining room where its tones may be softened by applying a thin coat of varnish. When such papers as this or any scenic paper is used, pictures are conspicuously absent. The paper itself is sufficiently decorative. Where plain panels are used, even with a gay border, a picture may often be used with good results and they may also be used on some of the faintly shadowed papers where the design is only hinted at and never clearly defined. Mirrors, however, seem peculiarly adapted for hanging on figured walls.

Where a bedroom is papered in some one of the really attractive flowered papers that suggest old-time gardens or the chintz of an earlier day, pictures should not be used as is so frequently done. These papers are pictures in themselves and should be unadorned. The question of floral papers in a bedroom, no matter how bright and cheerful they undoubtedly may be, is a moot question at all times. If one is ill in such a room, the flowers assume impish and grotesque face-forms and one is very apt to court madness by ceaselessly counting the roses on the trellis. Where it is possible to have both a dressing and sleeping room and one ardently desires a floral paper, a happy solution is found in having the dressing room walls made into a flower garden, with the bedroom in plain paper. This matter of gaily flowered papers should be especially carefully considered in the matter of children's rooms.

Whether gay or plain, these new papers are now to be had in colors that do not rub off or smear, many of the plain papers being colored in tempera by hand, the colors in their borders being carefully applied with an air-brush.

In fact, the new beauty that is sweeping through the entire world of industry to-day seems to have found an especially fertile field in the modern wall-papers. When rightly selected, they will be found to offer the most effective means of transforming an old, dark house or dreary room, bringing with them not only the new designs but careful reproductions of the French and Colonial papers that added such dignity and charm to those homes of that earlier day. No other decorative medium provides quite the same unlimited scope as does wallpaper, but always must these essential points be remembered: (1) choose for color and fitness, (2) for size and pattern as well as character of design, (3) for craftmanship and quality of material. Then may a mere wall become the most cheerful note in the house, making the old woodwork, the old furniture and hangings take on new qualities of beauty.

Killing Bindweed by Chemicals

THOUGH thorough cultivation remains the really practical method of weed eradication for any large area, largely on account of cost, still where a small plot only is concerned treatment by bisulphide of carbon is recommended by H. W. Hulbert, agronomist, University of Idaho. A patch 10 ft. square can be treated for about $5 (if the liquid be purchased in bulk). Use an iron rod to punch holes, then pour the liquid in through a funnel. Cover the hole by firmly pressing down the soil about the opening.

To secure complete control it is essential that there be plenty of moisture in the soil. Experiments conducted in both dry, loose soils, and dry, firm soils were only partially successful. In nearly every case where the soil was moist, complete eradication of the weed has been effected by proper application. Therefore it is advisable to apply in late spring or early summer. On Idaho soil it was found that two liquid-ounce doses in half-inch holes, eighteen inches deep, at two foot intervals was quick effective. In other words each two ounces of chemical will kill plants, in four square feet.

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(*Continued from page 251*)

All the Iris fanciers will tell you the time to plant the German or Bearded Iris is in August. But if a friend has too many and offers you some now, take them. If carefully dug with a good supply of earth about the roots, they will bloom about as well as if they had not been disturbed. With us these Iris bloom in late May so that the chances of getting bloom from May planted roots is slim unless care is taken to move them with considerable earth about the root.

If contemplating buying Iris this summer go to an Iris specialist's nursery when his plants are in bloom, pick out the particular plants and bring them home with you. It is really useless to mention varieties to buy here. Go and see and buy to suit your fancy. The old standbys are very reasonable in price, One nice thing about buying Iris is that you cannot get a poor one. The American Iris Society made a scale by which to judge the value of this "poor man's orchid." It runs from 1 to 10, the latter being the best. The better Iris nurserymen have discarded all varieties which the A.I.S. rated less than 7.

Iris do not need a rich soil. Alongside of my house I have a thick row of them. The soil is poor, there is much lime rubbish in it which the masons dropped when building. Although so well drained that other plants do not thrive without watering the Iris grow luxuriantly.

SUMMER HYACINTH. In the garden where I was initiated into the mysteries of horticulture we had a shrub backed border filled with perennials. Down at one end was a clump of the summer-blooming Hyacinth (Galtonia candicans). Blooming in midsummer, producing 18 inch to 2 foot stems carrying a mass of pure white flowers, they appealed to me so strongly that I never can forget them. I remember only three plants growing in that border and this is one of them. I really love that plant and I have never understood why they are not more often found in gardens. The bulbs are as hardy as Tulips. This particular clump had grown in that Massachusetts garden for years, slowly increasing and becoming more beautiful each year.

ISMENE. One of the other garden plants, yet now seldom seen, is Hymenocallis calathinum usually catalogued as Ismene. Given the same treatment as Gladiolus, this South American bulbous plant will give a wealth of blooms in July. Each bulb produces six to eight strap-shaped leaves about two feet long and from among them rises a 1½ to 2 foot stem hearing four or five pure white delightfully fragrant, lily-shaped flowers each 4 or 5 inches long, with rounded, fringed lobes. Besides being beautiful it is extremely interesting to watch, for the insects seem to like the nectar, but instead of traveling down the inside of the flower to get it they make a hole near the base to gain entrance. Just why this beautiful plant has not become popular is hard to say. Seedsmen persist in cataloguing it, but I sometimes wonder if they sell enough bulbs to pay for the space taken in the catalogue.

MONTBRETIA AND SOME OTHERS. Another class of plants that are old in point of introduction but not in common cultivation is the Montbretias, which the botanists call Tritonia. Lemoine's hybrids are splendid and there are a lot of named varieties. In most catalogues, however, they are simply listed as Montbretia hybrids. They may be likened to miniature Gladiolus, the plants being about three feet tall and slender with star-shaped flowers on one side of the stem as in Gladiolus. In color they are fiery red and orange. Montbretias are very popular in England as bedding plants. The bulbs are not reliably hardy in the latitude of New York and Philadelphia so they are lifted in the fall and stored the same as Gladiolus. In a rich, warm, moist soil in a sunny situation they bloom abundantly and increase so rapidly that one may cut some of the stems clear to the ground to get foliage for bouquets. It is an excellent cutflower. The common Lemoine hybrid is Tritonia crocosmiaeflora.

Acidenthera bicolor comes from Abyssinia. It was introduced to this country about twenty years ago, but like the Montbretias it has never become popular. The two-inch fragrant white flowers are borne by a gladiolus-like plant. May planted bulbs bloom in midsummer or later. In some northern gardens having short summers they have gone so far as to grow this plant in pots or boxes for flowering indoors in the early fall. Acidenthera wants good soil, preferably a heavy one.

I have not recently seen Watsonia iridifolia catalogued. It is a plant for the advanced amateur, for it is not hardy in the East, at least not in New England. It is another of those gladiolus-like plants which loves a sunny situation, in which the plants grow three to four feet high bearing white tubular flowers one inch across and about two inches deep.

RED-HOT-POKER. From August to October the Red-Hot-Poker, or Torchlily, plant fills the garden with its long spikes of fiery, really barbaric, red and orange tubular flowers. Some folks profess not to like them, but I believe it is because at present the fashion in herbaceous gardens is running to Larkspur and Iris.

ODD BULBS. One of grandmother's favorites was the Tuberose, but, "they say" its heavy sweet odor reminds them of funerals. Nevertheless it's a fine garden bulb for the summer plants. Bulbs set now will fill the late summer and early fall garden with fragrance.

These are all the easily obtained bulbous plants, but if one will delve

(*Continued on page 318*)

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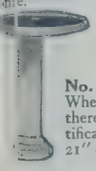

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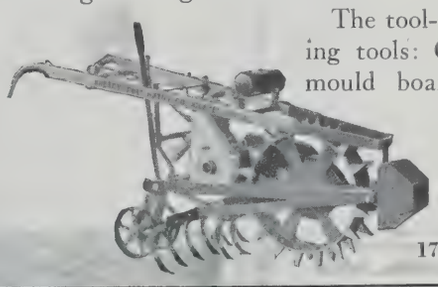

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The Small Northern Dining Room

A. Louise Fillebrown
Interior Decorator

AFTER all, we are in our dining room each day for a couple of hours at the most; and, with conventional furniture and its conventional use, a large dining room is really an unnecessary luxury. But on the other hand, nothing is more depressing than dining in a dull dark room. We should put thought and ingenuity into making the dining room of our home, though small, a place where it is a pleasure to entertain our friends, where cordial hospitality is expressed by the room itself as well as by the people in it, and where pride in a well planned dinner is not marred by a depressing sense of failure in its setting.

I was consulted about a dining room recently that was the despair of its owner. It was small, about ten by twelve feet. The exposure was northwest, but unfortunately the west window had to be blocked out by an attached garage that had been added after the house was built. This small dark room was further disfigured by an oak wainscoting that extended three feet up the wall with a chair rail at its top. Its horizontal line made the low ceiling seem lower, and its golden oak finish against the plain gray painted wall brought it into sharp relief. The owner of this room had attractive furniture—a Colonial dining room set finished in brown mahogany. Her silver and china were charming, and her rug, a plain dark brown Axminster harmonized with the brown of the mahogany, though it also made the room seem darker with its heavy color. It was time to redecorate and hang new draperies, and my puzzled friend wished to counteract as many faults in the room as possible when making her selections.

I will show you briefly how easy it was to change the entire effect of the room with a little thought and care in choosing colors and materials.

LIGHT. The feeling of cheery light in a room or the lack of it depends almost entirely upon the colors used. Gray, yellow, cream, white, and light green, reflect the most light. After them come gold, orange, rose,

(*Continued on page 307*)

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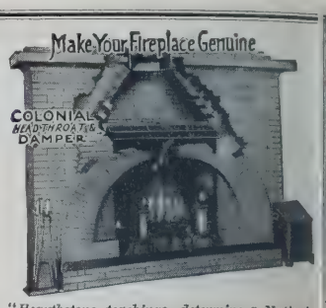

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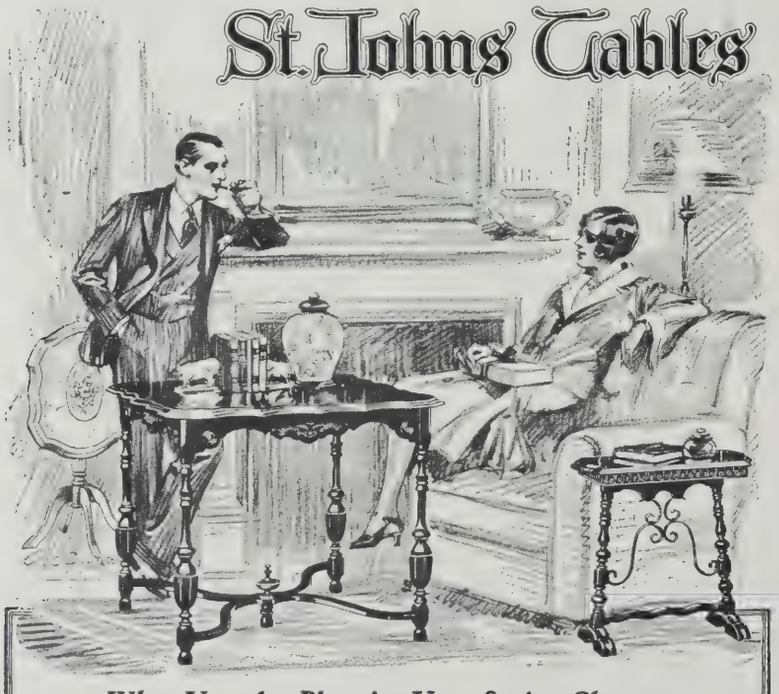

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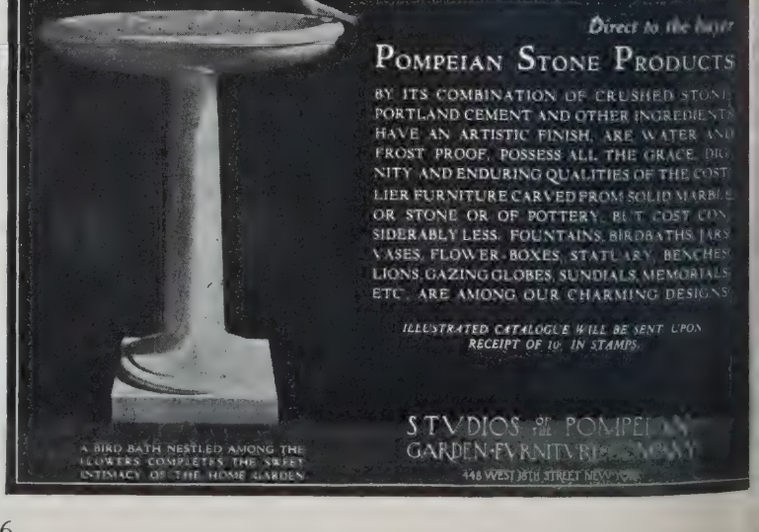

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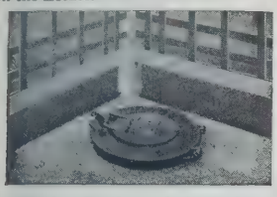

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(Continued from page 306)

orchid, and tan. Therefore in this room we chose a wallpaper with a soft yellow ground. The design was in light gray and cream, so we papered the ceiling with a deep cream paper to make less contrast with the walls, and painted the woodwork the same yellow as the background of the walls. The yellow and cream gave the room a feeling of sunshine even though none actually entered through the one north window, and the unity of color made it seem much larger.

SPACE. Perspective in the design on the walls does more than anything else to give an effect of more space to a small room. Scenic or picture papers are drawn so the eye travels back into the picture in an amazing way, and the actual walls cease to enclose you. Wallpapers with large spreading designs showing open background also have this space-giving quality, for we seem to look through the vines or branches into an open area beyond. However, a well drawn scenic can do more in a very small room than anything else to add the two or three extra feet that are so needed, so we have chosen that type of design for our wallpaper in this dining room.

HEIGHT. To add height we will remove all horizontal lines possible, and add vertical lines if it can be done. The chair rail goes first and the wainscoting is painted the background color of the paper above it. You will remember we painted the woodwork this color also, so all the conflicting lines of door and window trim are practically hidden. Contrasting woodwork breaks up a small room, and accentuates all its openings. If it is painted the background color of the wallpaper, it melts into it and is lost and the room has much more unity and seems higher. In this room the only vertical lines we could add were in the draperies. We made the overdraperies at the window of soft light green, not a heavy color, but a pleasing contrast to the yellow that was so general. It helped to balance the dark color of the floor, and both in the draperies and in the single portiere between dining room and hall, it made a charming color note that was reflected in the flowers that were usually in evidence, and in the treasured Venetian glass that my friend used on her table.

FLOOR. The dark rug had to remain, and its color harmonized well with the yellow walls. However the dark spot surrounded by the light oak floor border brought the size of the floor space into prominence. We found by darkening the wood of the floor with stain to almost the same brown as the rug that this became less obvious and therefore the floor space was apparently larger.

The room seems delightfully sunny now, though no actual sunlight enters, and with soft yellow georgette shades on the lights at night, it is as cheery and inviting as an early spring garden.

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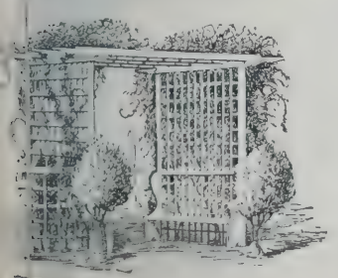

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Hearthstone Editor's Chat

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Attractive Bathrooms

FROM the standpoint of beauty, color and general attractiveness, the bathroom in the average home is the least pleasing room in the house. If there be the three essentials—good plumbing, good fixtures and sanitation—the room is usually put out of mind as being finished, overlooking the question of beauty or the part that this room might and should play in making the home more enjoyable and livable. In our pride in being an efficient nation, we are very apt to forget that, after all, the mechanical home-devices we can instal should be but factors to enable us to create added beauty. Too often mere efficiency is regarded as the ultimate result to be desired.

The bathroom does not have to look like an enlarged and sterile icebox merely because it is a hygienic necessity. We can use our daily tub or shower quite as healthfully and with a great deal more pleasure if the room be cheerful, convenient and gay with color as well as being sanitary. There might, perchance, be an urge to even more frequent bathing.

IF A new house is being built, there should be plenty of space allowed for this room, It should not be stuck in some out-of-the-way corner not fitted for any other use or because merely convenient to the downstairs plumbing. The bathroom should be definitely planned as a component part of the beauty of the house rather than as a necessary evil. This is an easy matter with the new house, but with an old one where the bathroom must be accepted as it is, even the most forlorn, ill-planned, dreary, hand-me-down bathroom can be turned into a bathing-place of loveliness.

There are many ways of doing this. Walls can be tinted in plain colors or painted with scenes, foliage, or flowers; floors can be of colored tile, colorful linoleum or a waterproof liquid floor-covering. Woodwork can be made to glow with subdued tones; the curtains for windows or shower can be of rubberized material that comes in all shades; tiles may be used for walls or floors or both. There is no limit to the color and design of tiles; they may be had in every conceivable shape and size and color to suit all decorative periods or style of house. There is a sense of permanency about tiles, a note of elegance that brings a touch of dignity and richness to any room even the smallest. Then, too, they can bring both color and good design. Tiles can be put in an old bathroom and this without tearing the room to pieces.

An imitation tile effect can be secured by using some one of the many good wallboards that come ready marked for tile and that can be purchased in sections. These boards can then be painted, varnished or enameled to provide an easily washed surface and to give the necessary color. If preferred, the walls may be finished in colored plaster or some of the new plaster-like finishes which for want of a better name we call "plaster-substitutes," although they are not substitutes at all but new and decidedly ornamental compositions of sand, cement, and asbestos that add to the safety of the house.

THEN there are the wallpapers. Not only the old well-known washable papers but new papers that carry the color and mystery of the jungle in their design, scenic papers that bring to the narrow, little two-by-twice bathroom a sense of space, an opening up of the walls. There are papers with trellises spaced here and there to hold the vines that creep along the walls; papers that suggest colonades through which one catches a glimpse of a blue sea and these papers may all be varnished if desired so that they may be washed off easily.

There is one particularly attractive new wall material that has the fine surface of china with many times the abrasive resistance of marble. This is not intended for use solely in a new house as it may be put on over old walls if they are plumb and plastered. This china-like material with its fine glaze comes in colors or in plain white and black with very beautiful panel and border effects that have been etched on (illustrated on this page). These colors are permanent and the material is the last word in beauty and sanitation and ease in cleaning.

In any bathroom, after color has been brought to it, the fittings are the finishing touch, and right here let it be said that cheap fixtures are always costly. More than that, the best modern fixtures for the simple, average bathroom are so reasonably priced that there is really no excuse for installing any but the best. Cheap fixtures are not only short-lived but they do not give satisfaction while in use and there is always the possibility of damaged floors, walls and ceilings when they wear out. Especially should a good quality of tub be purchased and the most attractive type is the built-in variety that precludes collection of dust under or behind it and that fits snugly down to the floor and into the walls.

IN THE matter of showers for the modern bath (and none is complete without one) the manufacturer has made tremendous strides. Recognizing that the shower is the quickest and cleanest sort of bath he has made it especially pleasant by the invention of a valve that gives complete control of both temperature and force. Showers with this new valve may now be had with needle like sprays from the side walls and with ball joint to permit the overhead spray to be used at any

(Continued on page 312)

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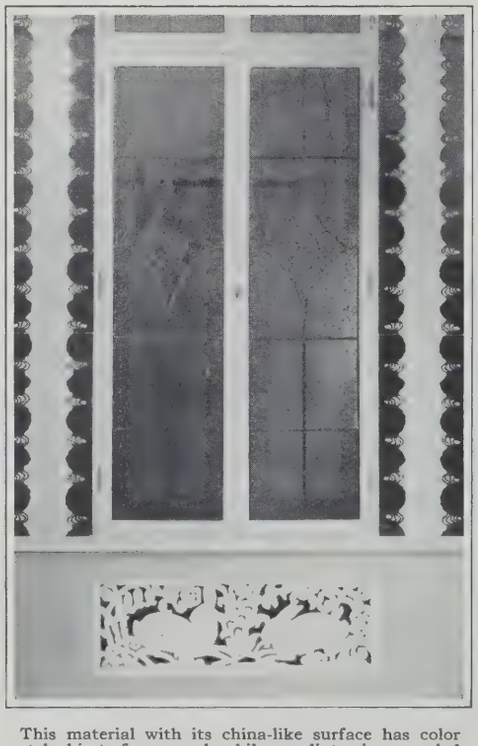
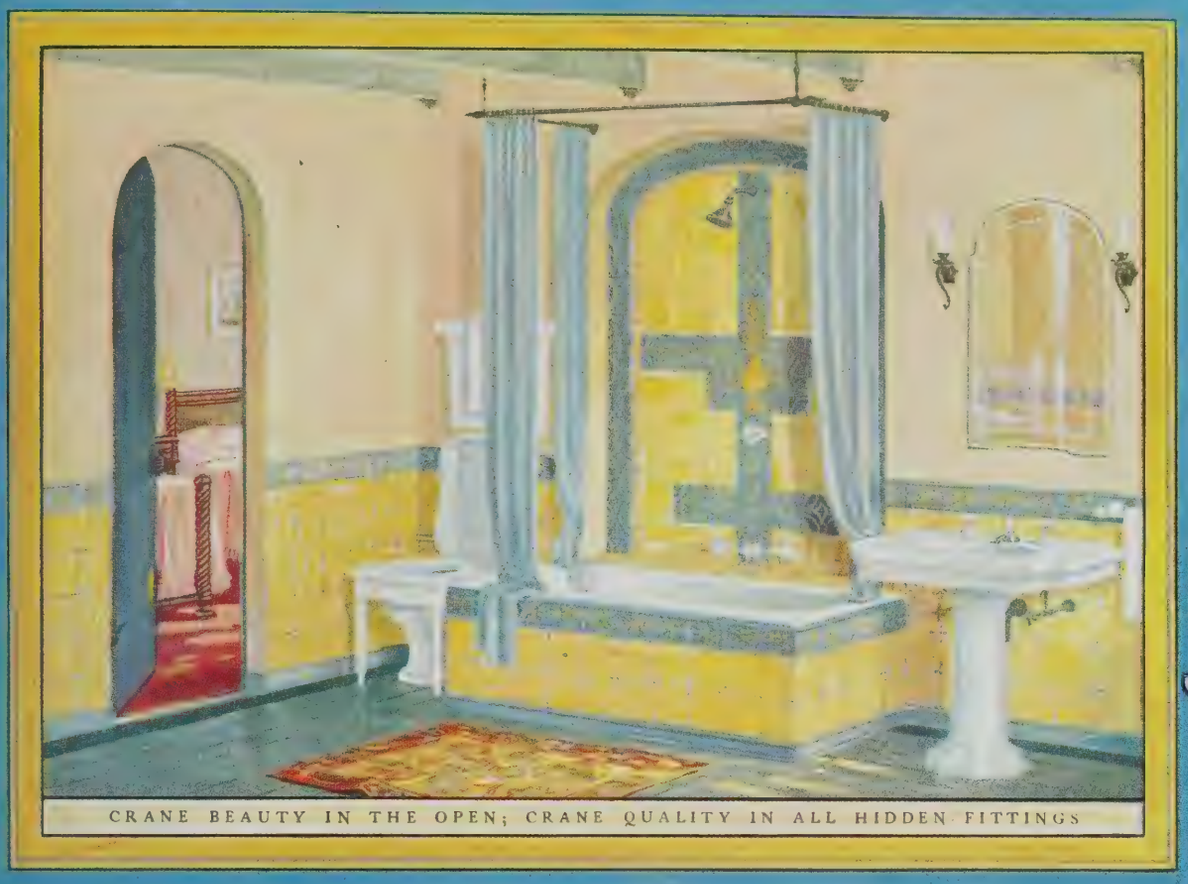


This material with its china-like surface has color etched in to form panels while a radiator is concealed behind the delicately carved panel at the bottom



CRANE BEAUTY IN THE OPEN; CRANE QUALITY IN ALL HIDDEN FITTINGS

Spanish in design, the luminous color of its majolica tiles heightens the rich beauty of this dignified bathroom.

Interest is centered in the bath itself by the recessed panel of gold and turquoise tiles carried up to an arch above the shower. In the wainscot and the setting of the *Tarnia* bath, the tiles are patterned in red and blue. Above, rose-tinted walls rise to a beamed ceiling. Floor tiles in turquoise form a base for the entire scheme.

With this colorful background, the lustrous white of the Crane fixtures is in happy contrast. The *Tarnia* bath is of enamel; the *Elegia* lavatory and the quiet *Corsyn* are of twice-fired vitreous china; the latter has a cane seat and back.

Established contractors supply Crane plumbing and heating fixtures, valves and fittings in a full range of styles and prices. Write for the Crane book of suggestions on arrangement and color.

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Address all inquiries to Crane Co., Chicago

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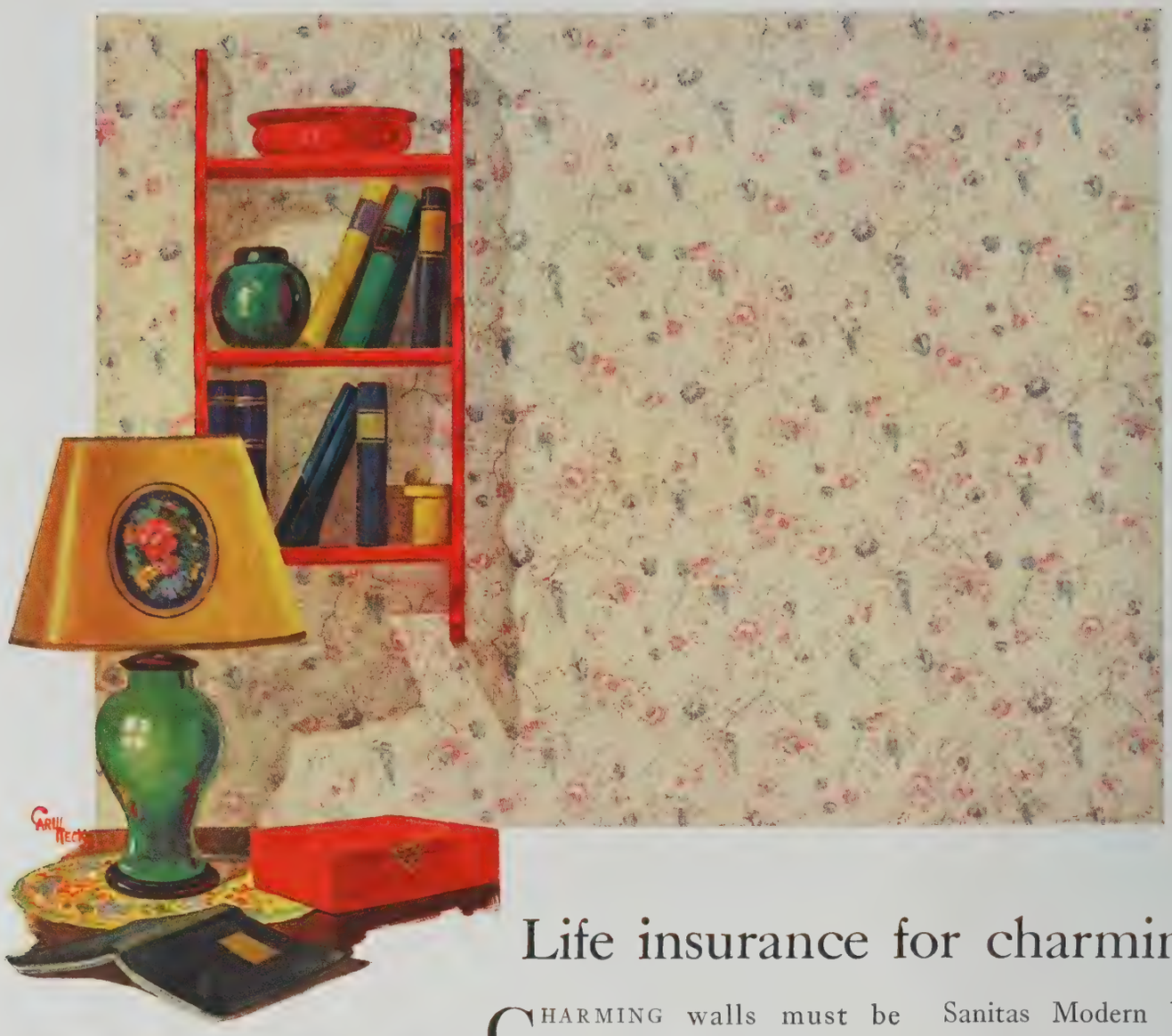

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Sanitas Modern Wall Covering keeps things from going wrong with the walls. Its sturdy fabric back cuddles up tight against the plaster and keeps it from cracking, or cracks from showing through. The evenly-laid surface of durable oil colors keeps air and moisture from seeping through to the plaster and crazing it, and at the same time makes it possible to wipe the walls clean with a damp cloth.

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Plain and Pastel Flat Finish
tints that can be hung as they come, or stenciled, frescoed, or Tiffany blended.

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conventional and foliage patterns, neutral toned designs of vague formations, stripes, mottled effects, and reproductions of tapestry, grass-cloth, leather and various fabrics.

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in embossed effects for paneled treatments and trimmings.

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plain colors, tile effects and decorative patterns, for kitchens, bathrooms, etc.

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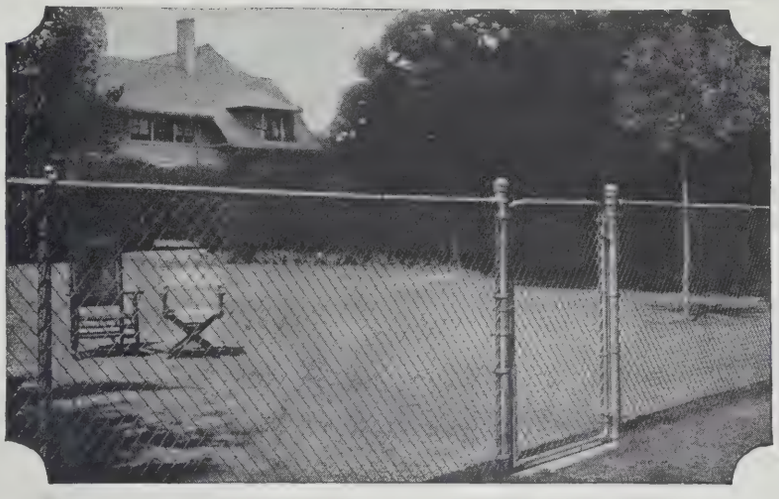

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(Continued from page 308)

angle. For a shampoo this will be particularly appreciated.

Showers may be one of several styles. One is known as the "stall shower" where tiled walls enclose a narrow boxlike structure with carefully built floor with drain and with waterproof door. Or it may be part of the equipment of the tub itself, with glass walls. Varied and elaborate to suit all tastes are these showers, but the essentials of each are the shower head and the mixing valve.

To change the old bathroom into a modern one, a shower may be installed over the tub by using either rectangular or circular nickel-plated curtain rods fitted with curtains, high pipe with shower head with the adjustable

(Continued on page 314)

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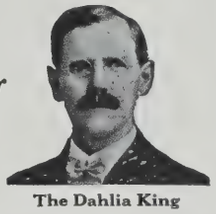

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Rule Supreme! Easily grown in any garden soil, they literally burst forth in sheets of bloom during October-November. We offer a special collection of ten fine varieties varying from white to deep carmine. **One each of our ten Favorites for $4.00.**

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Order Combination "H"

5 Lavender
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5 Pink
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40 Large Bulbs $1.00

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In the course of a year a large number of bulbs get accidentally mixed, and any that I am not positive about are thrown into this mixture. It contains many named varieties, and while I guarantee nothing yet there are some of my best varieties included. If you want to buy a "pig in a poke" try some of these.

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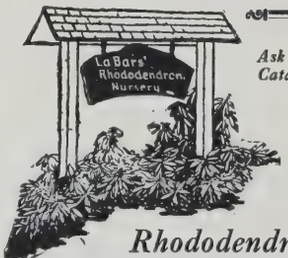

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100 acres of nursery-grown native Rhododendrons, Azaleas, and Kalmias enable us to supply extra choice specimens in quantity.

The largest American collection of Old English Boxwood (2 to 7 ft.) is here for your inspection.

LaBARS' Rhododendron Nursery

Box 65 Stroudsburg, Penna.

(*Continued from page 312*)

ball joint and this may be had ready to install for less than $35. Still another shower is known as the "portable shower" this connecting with the bathtub faucet by means of a hose with a patented attachment so that it will never work loose or leak. With this shower, there is an attractive circular curtain ring 24 inches in diameter and a heavy curtain. This shower is easily put in and comes complete even to the screws.

The average home has too few bathrooms, a condition easily overcome since a complete individual bathroom can now be had that will fit into a space 5 feet square. For this there is a built-in five foot tub made to fit a right or left hand corner, there is a shower and curtain and all the conveniences of a larger room. By using some large closet that can easily be spared or by partitioning off a space of this size, each bedroom can easily have its own bathroom.

To further complete the bathroom no matter what its size, there are many accessories in vitreous china to bring the maximum of comfort. There are china soap and sponge holders and hand rails, china holders for toothbrush and tumbler, china hooks for clothing, china towel bars and various sized china shelves with brackets also of this durable, attractive and extremely sanitary ware. Even the electric heater has not been overlooked, this coming in a recessed type with three heating lamps of various voltage. Many of these fixtures are meant to be recessed in the walls; all have rounded corners and there are no screws or nails to show, nothing to come loose or get out of place. They will enhance the appearance of the simplest bathroom, whether old or new, and bring a sense of luxury and convenience that lifts this room out of the strictly utilitarian and makes of bathing more of a pleasant luxury than a necessary hygienic operation. In fact no longer need the bathroom be the orphan-child of the house but become instead a main factor in its beauty as well as the center of its health and comfort, if an appropriate decorative scheme be worked out for it and if we subordinate its necessary fittings and mechanical appliances and stress instead comfort, charm, and warmth of coloring.

Lime for Sour Soils

MOST garden crops are of a succulent nature, and rapid growth is required for finest quality. Labor and money are wasted because of a lack of understanding of this fact. The soil, more than any other factor, governs the character of growth. It must be well supplied with humus—well-rotted manure is best—and it must have lime to aid in the decomposition of this humus and make the nitrogen—that element so essential to plant growth—available and usable to the plants. This nitrogen must be soluble and there must be an abundance of it for quick, rapid growth. Lime is the best agent to do this job.

Any form of lime is good for sour soils, but for garden work, where ready availability and quick action are desirable, the finely divided limes are essential. Lime hydrate in convenient 10- or 50-lb packages can be had at any building supply dealer or from the seed store or implement dealer. Fifty pounds of hydrate or one half bushel of quicklime is sufficient for a 50 x 50 ft. plot. Don't try to grow stuff on a sour garden plot. It's just as hard to get bright, crisp, tender vegetables from a sour, sick, soil as it is to get a smile from Calamity Jane.

From the nearest druggist get some blue litmus paper. Take a few handfuls of earth from different parts of your plot, mix them well, moisten slightly, place the paper in the soil and see what happens. If the strip changes color promptly your soil is sour and the answer is lime.

Miscellaneous Fruit Data

TIME FOR FRUITS TO BEAR—MINIMUM AND GOOD CROP

Apple—3 years; 10 years	Peach—2 yrs.; 4 to 5 yrs.
Blackberry—1 yr.; 2 to 3 yrs.	Pear—3 to 4 yrs.; 6 to 12 yrs.
Citrous fruits—2 to 3 yrs.; 4 to 6 yrs.	Persimmon—1 to 3 yrs.
Cranberry—Fair crop 3rd year	Quince—2 yrs.; 4 yrs.
Currant—1 yr.; 2 to 3 yrs.	Raspberry—1 yr.; 2 to 3 yrs.
Gooseberry—1 yr.; 2 to 3 yrs.	Plum—3 yrs.; 5 to 6 yrs.
Grape—Fair crop in 4 yrs.	Strawberry—1 yr.; heaviest crop 2nd yr

Dwarf Apples and Pears—Begin 5th to 7th yr.

AVERAGE PROFITABLE LIFE OF FRUIT PLANTS

Apple—25 to 40 yrs.	Peach—8 to 12 yrs.
Blackberry—6 to 12 yrs.	Pear—50 to 75 yrs.
Currant—20 yrs.	Persimmon—25 to 40 yrs.
Gooseberry—20 yrs.	Plum—20 to 25 yrs.
Orange and Lemon—50 yrs.	Raspberry—2 to 12 yrs.

Strawberry—1 to 3 yrs.

VARIOUS ESTIMATES

One bushel of apples will yield about 7 lbs. evaporated fruit
One pound dried raspberries will require 8 to 9 lbs. fresh fruit
One pound dried peaches will require 4 to 7 lbs. fresh fruit
Twenty pounds of grapes will yield 6 to 7 lbs. raisins
One barrel of cider will require 7 to 12 bus. apples

Recognition!

THE trade name **BAKELITE** on moulded materials "speaks for itself" for it is now a "known quantity."

Because of this recognition, THE CONNECTICUT ELECTRIC MANUFACTURING COMPANY succeeded in establishing a precedent among Architects, Decorators and Inspectors for a new and complete line of Wiring Devices moulded of **Genuine Bakelite.** Cheap substitutes are in evidence, but Connecticut offers *none* and will continue to supply the *"real stuff."*

Connecticut furnishes a unit for every possible need. The rich brown color with smooth beveled edges and "egg-shell" finished surface, harmonizes with the most exquisite decorations. The finish is **permanent** and **lasting.** True, they cost more, but they are worth it.

Convenience outlets are essential in every electrical home, and are usually installed on base-boards, within easy reach of Bobby's exploring little fingers (note picture at right). *Kiddies have been known to "blow fuses" and receive serious injuries by stuffing nick-nacks" into the large openings of the old-fashioned receptacles.*

The new Connecticut design (illustrated below) with openings *just large enough to fit prongs of attachment plug cap* and the fact that all exposed metal parts have been eliminated makes these devices **absolutely shock-proof** and minimizes danger to human life.

"Protect the little tot"

THE CONNECTICUT ELECTRIC MANUFACTURING CO.

Manufacturers of high grade wiring devices for 20 years

Main Office and Factory, Bridgeport, Conn.

New York	Chicago	San Francisco
3 West 42nd Street	32 South Clinton Street	34 Natoma Street

TRADE MARK

CONNECTICUT "A-1" DEVICES

"Often imitated—but never equalled"

NOTE: *Each device bears our trademark and is stamped Genuine Bakelite — a definite indication of quality.*

No. 990 Duplex Receptacle
List Price.....$1.00 each
(actual size)

Arrange with your electrician **now** to replace your metallic plates with Connecticut plates of genuine Bakelite.

A four-color pamphlet will be furnished on application.

There's a unit for every possible need

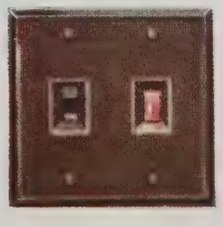
...olle Switch ...ue Only ...o. 7121 ...t.....60

Push Button Plate Only No. 710 List.....50

Duplex Receptacle No. 990 List.....1.00

Signal and Convenience Outlet No. 6170 List.....3.90

Cellar Light Combination No. 6145 List.....5.00



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Any desired combination can be furnished up to 12 gangs

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In the heart of New York, an Entire City Block —Russwin-ized!

THESE two great buildings, illustrated separately, in reality stand side by side to cover an entire city block bounded by Park Avenue, Lexington Avenue, Thirty-second and Thirty-third Streets, New York.

Their aggregate floor space is approximately 1,300,000 square feet—and the fact that they are Russwin-ized is but another example of the high regard which those responsible for distinctive buildings, large and small, have for the beauty, enduring quality and trouble-free service of Russwin Hardware.

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The American Hardware Corporation, Successor
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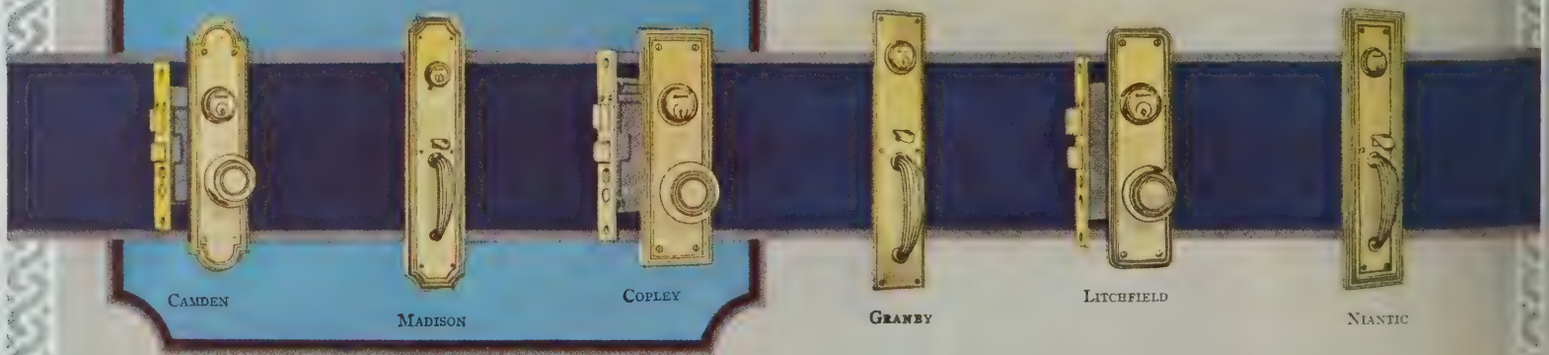

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It is a gold mine for the flowerlover and the home gardener.

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Fairfax Roses, Sturdy, Vigorous

plants grow outdoors, acclimated to all climates. One-year and two-year plants ready for shipment; the healthy, hardy roots of Fairfax Rose Plants assure a **free and beautiful bloom the first season.**

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Write for beautiful Fairfax Rose Book containing valuable information on rose culture as well as most beautiful illustrations and descriptions of ROYAL ROSES OF PURITY AND BEAUTY—the "Pride of the Earth."

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RE-MOVE-ABLE STEEL CLOTHES POSTS

WHY use wooden clothes posts? They are unsightly and last only a few years. These posts are made of high carbon steel tubing 1¼ inches in diameter, and reinforced with concrete. They are strong, attractive and will last indefinitely. Stand 6½ feet above ground. Easily removed from the socket.

Ask your dealer, or write us for Folder G.

Green Enamel Duco finish, $2.75 each, complete.

Galvanized, aluminum painted, $3.00 each, complete.

This price includes delivery in sets of four or more.

Also Manufacturers of Removable
STEEL TENNIS POSTS AND FLAG POLES

NEWARK STEEL POST CO.
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BOLGIANO'S

Favorite Half-Dozen Roses

These are the varieties that we consider best for the amateur to grow, Because they are:

Extremely hardy—Adaptable to varying conditions—Bloom continuously—And give a wide variety of colors.

Strong 2-yr.-old plants, field grown with 3 to 5 branches.

Absolutely the best in quality that money can buy.

Kaiserin Augusta Victoria: Fine, glossy foliage and moderately vigorous in growth. The flower is large and full, produced on long stems. Color creamy white, faintly tinged with lemon. Magnolia like fragrance.

Mad. Edouard Herriot: One of the very first roses to bloom outdoors and succeeds over a wide range of climatic conditions. Coral-red, shaded with yellow and bright rosy scarlet with yellow at the base of the petals. Bright green, glossy foliage.

Red Radiance: Identical with Radiance except in color of flower which is a medium red. Of great garden value. Third place in the American Rose Society's "Favorite Dozen" Hybrid Tea Roses.

Mme. Butterfly: A sport from the Ophelia and therefore identical in habit, growth, and style of flower. Medium size, color pink, apricot, and golden yellow.

Sunburst: Leathery, bronze foliage that is disease resistant. Bright glowing orange blooms that pale slightly at edges of petals.

Radiance: Very vigorous, upright, bushy plants bearing a continuous supply of very large, globular-shaped flowers, light silvery pink to salmon-pink on long, strong stems. Most dependable everywhere. Splendid for both cutting and bedding. First place in the American Rose Society's "Favorite Dozen" Hybrid Tea Roses.

SPECIAL OFFER Bolgiano's Favorite Half-Dozen Roses **$5.00**

In our Bulb and Plant Book is a complete list of all our other varieties of Roses, also Peonies, Iris, Lilies, and Nursery Stock. Send for your copy.

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Scott's Creeping Bent for Perfect Lawns!

Sod in six weeks! A rich, velvety stretch of lawn that chokes out weeds before they can grow! A deep, thick, uniform turf that makes your home a beauty spot! That's what you'll get if you plant Scott's Creeping Bent.

The New Super-Lawn

Creeping Bent—long recognized as the ideal grass for golf putting greens—is now producing Super Lawns. Instead of sowing seed, you plant stolons or the chopped grass—and in a few weeks you have a luxuriant lawn like the deep green pile of a Turkish carpet!

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This little book "Bent Lawns" is free to you. It is a valuable treatise on how you can have beautiful lawns. Write today for your copy.

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6 Tools in one

A—Gilson No. 2 Wheel Cultivator with Kill-weed Cultivator
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C—Dubl-Duti Weeder
D—Furrow Closer
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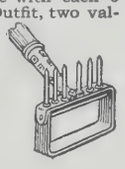
GilsonWheelOutfit

Used extensively by gardeners everywhere. Strongly built. Adjustable handle. Wheel can be offset when straddling rows. Tools quickly and easily changed by hand. Regular price of complete 6 in 1 outfit, $13.15. **Special $10.00**

FREE To encourage early orders will give free with each 6 in 1 Wheel Outfit, two valuable hand tools—a Gilson Wonder Dandelion Digger, and a Dubl-Duti, push-pull, Scuffle Hoe—saves time and labor.



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A GARDEN FULL OF FLOWERS

On receipt of cheque or money order for $5 we will send you via American Express our finest collection of plants consisting of

1 Peony Mad Calot, pink
1 " Officinalis rubra, red
1 " Festiva Maxima, white
24 Gladiolus finest mixture
4 Dahlias in 4 varieties
3 White Callas
1 Elephants Ear
4 Begonias, tuberous
3 Lilium Bulbs

Dutch Bulb Seed Co.
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TALES OF HEARSAY

Four stories by Joseph Conrad

Prince Roman — The Tale
The Black Mate — The Warrior's Soul

AT ALL BOOKSTORES

SPECIES OF TULIPA

Most alluring of all tulips and none take more kindly to our Gardens or Rockeries, etc.

	THREE	DOZEN
Australis—So pretty and fragrant. Falls yellow, petals tinged reddish bronze outside	.40	$1.25
Clusiana—The lovely little "Lady Tulip." Outer petals cherry red, inside creamy white, violet base	.35	1.10
Dasystemon (3 in.)—A showy yellow and white species producing several flowers to a stem. Each 50c		5.50
Persica (3 in.)—A gem. Fragrant, brilliant yellow to bronze borne in twos and threes	.50	1.60
Florentina Odorata (18in.)—Bright yellow, bronze exteriors. Deliciously fragrant. Increases rapidly	.35	1.25
Kauffmannia—The beautiful "Water Lily Tulip." Creamy white, flamed carmine, centre golden. Each 50c.		3.50
Marjoletti—Slender growing, primrose yellow with rosy base	.40	1.50
Praecox—Glowing crimson with black centre	.75	2.50
Primulina (9 in.)—Flowers creamy white tinged lilac outside. Bronze colored stems	.50	1.60
Pulchella—Charming species from Asia Minor producing brilliant crocus-like falls, in shades of crimson-carmine to carmine-rose	.50	1.75

We offer, if ordered before July 1st, 3 each of these 10 choice Tulipa Gems (30 bulbs in all), for $5.50

H. H. BERGER & COMPANY

102 Park Place (*Established 49 years*) NEW YORK

(*Continued from page 304*)

through the catalogues there will be others found worth trying, such as Cooperias, Alstroemerias, Tricystis and some California bulbs.

ORNAMENTAL GRASSES. Entirely different from these gorgeous flowering bulbous plants, but still exceedingly useful for quick one season garden effects, are the Grasses. The tallest and perhaps the most effective is the great reed (Arundo donax). The height to which it will grow depends upon the richness and moisture of the soil; eight to fifteen feet is not uncommon, but it is all grass and but little plume. It is hardy, but it is well to mulch the ground over winter. Remove the stems when cut by frost.

The extremely graceful plumes of the Pampas Grass are as beautiful as a good ostrich feather. The plants grow six or eight feet high with foliage being long and narrow. Strong stems bearing beautiful silvery plumes stand two feet above the foliage. Unfortunately when they have reached their greatest beauty they are easily destroyed by high winds, becoming ragged, but at that they are picturesque. The plumes if picked when in their prime and dried make beautiful winter decorations. The plants are not hardy up north. When frost has killed the foliage, lift the roots and store in the cellar.

Erianthus ravennae is a hardy perennial which makes a good substitute for the Pampas Grass. It is equally good as single specimens or in masses and ranks next to the Arundo in effectiveness. Like the Pampas Grass its plumes are attractive when dried.

For smaller gardens the Eulalia (or Miscanthus) sinensis is fine. The deep green gracefully arching leaves form a clump six to eight feet high and bear a small silvery spike of flowers in late summer. Hardy; the plant expands from year to year, often making clumps 18 feet in circumference. It has three varieties; one, variegatus, in which the foliage is striped lengthwise with creamy white; another, zebrina, has yellow and green alternating bands; and the third, gracillimus, with $\frac{1}{4}$ to $\frac{1}{2}$ inch leaves that droop gracefully making an extremely beautiful background for a herbaceous border.

Compared with the foregoing the two Pennisetums are dwarf. They grow only about two feet high but they are extremely graceful. One species, P. villosum (but usually catalogued as longistylum) bears feathery brownish spikes two to four inches long. The other, P. ruppelli, has somewhat longer spikes. Neither is hardy, so the plants must be bought, or they may be grown from seed sown in February.

The Domestic Bulb Supply and the West

(*Continued from page 269*)

self-sustaining, particularly with regard to so staple an industry as bulb culture."

SUMMARIZING the views of a large number of Western growers, it would seem that they regard the quarantine, not primarily as a means of controlling insect pests, but as a stimulant to the further growth of the industry in this country. They feel that so long as the consumers of bulbs need suffer no loss either in quantity or quality of bulbs, due to ideal propagating conditions, particularly on the Pacific Coast, the industry should be fostered as a matter of public policy—America for Americans and American products for American consumption.

However, the bulb industry of this country is bound to grow by force of circumstances, and the Puget Sound basin will no doubt witness the most spectacular growth, for here nature smiles and beckons.

WHAT THE EAST IS DOING

—That the American gardener will have a supply of bulbs available this year seems certain, but the West is not to be left an open field. Considerable enterprise has been shown by a number of growers in the East and extensive plantings of propagating stock of Narcissus were made in anticipation of the closing of the door. At various places along the Atlantic seaboard from Long Island to Virginia plantations of Daffodils in large variety have been made. Farther south the Paperwhite Narcissus is being given large acreage.

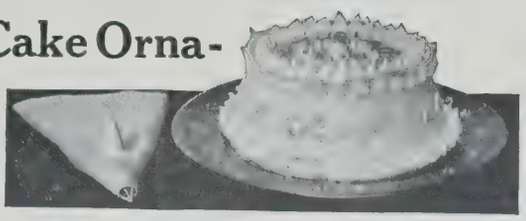
During the last few years we have had under observation in our Test Gardens here at Garden City a fairly representative lot of Narcissus varieties of the Large Trumpet, Incomparabilis and Poeticus sections; and we have had perfectly satisfying results. We have also tried some domestic grown Tulips which are being extensively raised by at least one concern in the East. The case of the Tulip, however, is not urgent at the present time, as there are no restrictions yet placed on it; but any demonstration of the actual growth of Tulips here has its own interest.—ED.

Peony Novelties

If you are interested in Peonies, send for my 1926 list. All the best of the Standard varieties. Also the new Lemoine novelties: Alice Harding, Argentine, Denise, Dulcinea, Genevieve, Mme. Escary, Odalisque; and the new Doriat novelties: Charlot, Mme. Edward Doriat, Nannette, Inspecteur La Vergne, and many others.

O. L. RINGLE
Wausau, Wis. P. O. Box 90

Get This Cake Ornamenting Set

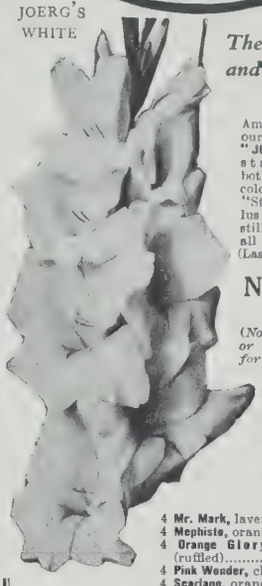


THIS cake was beautifully decorated with the bag and two tubes shown above. You will find one of these simple and convenient sets useful for decorating cakes, pies, and many of the attractive dishes found in each issue of AMERICAN COOKERY, the invaluable household magazine which tells you how and what to serve, how to set a better table for less money, how to make and serve "Vanderbilt Salad," "Ice Box Cake," etc.—gives you 40 or 50 tested recipes, many illustrated, in each issue. AMERICAN COOKERY gives menus for Dinners, Luncheons, Wedding Receptions, Card Parties, Sunday Night Suppers, etc. Also contains timely Household Articles and good fiction.

Our Offer: Send us One Dollar (cash, check, or stamps) and we will send you the decorating bag, two tubes, (decorating set alone is worth 50c), and AMERICAN COOKERY for the rest of the year, 1926, commencing with the May number which contains recipe and full directions for making and decorating the cake illustrated above.

AMERICAN COOKERY 41 Pope Building Boston, Mass.

"Best on Earth" Gladioli



The Rarest New and the Choicest of the Old

Among the former, our giant White "JOERG'S WHITE" stands supreme both for size and color. It was the "Star" 1925 Gladiolus novelty and is still the greatest of all White Gladioli. (Last year $5.00)

NOW $3.50
Per Bulb
(No smaller sizes or planting stock for sale.)

Special Offer of 8 Splendid STANDARD GLADIOLI

	List Value
4 **Mr. Mark**, lavender-blue	$ .50
4 **Mephisto**, orange-scarlet	.83
4 **Orange Glory**, orange (ruffled)	1.00
4 **Pink Wonder**, clear pink	.83
4 **Scarlano**, orange-red	.83
4 **Polar Star**, snow-white	.83
4 **La Couronne**, cream, blotched maroon	.83
4 **Golden Gate**, golden orange	.83
	Value $6.48

The above collection post paid anywhere in the U. S. for . . . $5.00

Our 1926 illustrated catalog of "Best on Earth" Gladioli, Dahlias, Peonies, Pink Callas, etc. mailed free anywhere.

GEO. J. JOERG, Inc.
(40 years growing Gladioli)
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School of Horticulture for Women

A School of Country Life

Courses include Flower Culture, Fruit Growing, Bees, Soils, Landscape Design, Botany, Poultry, etc. Splendid opportunities open to graduates. Two-year Diploma Course begins Sept. 14th. Four weeks Summer Session Aug. 2nd to Aug. 28th. Catalog. Address

MISS LOUISE CARTER
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18 miles from Philadelphia

Dahlia Aristocrats at *Wonderful Values*

The end and aim of buying dahlias is to get flowers for your garden—and plenty of them; but to obtain this result someone who knows what he is about must make a painstaking and intelligent selection from the thousands of varieties grown. I have tried to do this. The offers below will give you, both the best possible value for your money and the most complete satisfaction in your garden:—this is guaranteed.
For $1.00 and $5.00 offers of Dahlia Aristocrats see March and April issues of this magazine.

This Collection of Five for $2.00 postpaid

	Regular Price
George Walters Salmon-pink-gold Hybrid Cactus	$1.00
Noir Alvarez Rich maroon Decorative	.50
Mady Savignon Golden Yellow Decorative	1.00
Belle of Springfield Crimson-red Pompon	.50
Darlene Pink and white Decorative	.35

This Collection of Five for $3.00 postpaid

	Regular Price
Sequoia Gigantea Bronze-yellow Decorative	$1.00
Glory of New Haven Finest lavender Decorative	1.00
Mrs. C. D. Anderson Rich crimson-purple Show	.50
Bertha Story Rose-pink Decorative	1.00
Kalif Best scarlet Hybrid Cactus	1.00

(Field-grown tubers--guaranteed in every way)
Illustrated Catalog of the finest Dahlia Creations Free on Request

J. HERBERT ALEXANDER
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Bulb Aristocrats

Some Interesting Suggestions

on how to conceal and cover Radiators throughout the house may be had without charge by addressing the

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Your Home-Building Problems

can be solved to advantage with the help of our Service Bureau, which is prepared to answer any questions from the readers of Garden & Home Builder on any subject having to do with the building, equipping and decorating of the home. There is no charge for this service. Address

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Profusely Illustrated. *Net, $4.00*

At all booksellers DOUBLEDAY, PAGE & CO.

Every question about the garden is answered in

"The Complete Garden"

By Albert D. Taylor, M. S. A.
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MASTER BUILT SANITARY KENNELS

Make Happy, Healthy Dogs

May be cleaned, aired and sunned in a jiffy. Four Standard sizes or Special Sizes to order. Best material and workmanship.

Send to-day for circular B

MASTER KENNEL BUILDERS
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ARCHITECTS

Japanese Gardens and Rockeries

Unique and attractive, skilfully and quickly constructed.

T. R. OTSUKA
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KENNELS

"Buy the Best" Pedigreed Pups—"At Just Half Prices"

Black. Cream. Siv. Police, 2 mos.	$38.50
Collies, 2 mos.	30.00
Irish Setter, 2 mos.	40.00
Chows or Wire Hair Fox Terriers, 2 mos.	65.00
Airedale, 2 mos.	30.00

This is our monthly sale. All males A. 1. stock. Order from this ad.

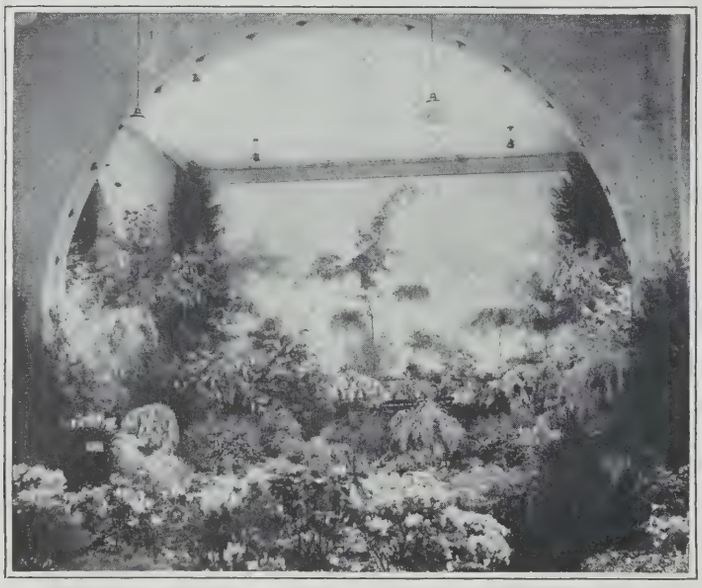
MAPLEWOOD KENNELS **Box 15, Medway, Mass.**

(Continued from page 275)

W. D. Thompson and Colonel H. Rogers contributed worth while collections of plants from under glass that are too little seen nowadays. Foliage plants of sheer intrinsic beauty are worthy of a little more attention than they commonly get. The last named gentleman included a number of Orchids and this same family was represented by rich collections throughout the show. In fact, it was as fine a display for Orchid connoisseurs as has been seen for many a long year.

Roses in the cut bloom classes were of that transcendent quality that we have come to demand in shows. And it is not surprising to those who have followed the Rose fashions of late that the red variety, Mrs. F. R. Pierson, a red sport of Premier, won the President Coolidge medal which was presented personally by Secretary Jardine. Never have we seen better Roses than the blooms that won this award. The yellow Mrs. Calvin Coolidge and the red Briarcliff were also well displayed.

Mrs. Pratt's thoroughly naturalistic and perfectly practical garden of Daffodils was a daring novelty and won prominence by its simplicity and restraint. It also contained a really remarkable collection of varieties of Daffodils embracing the complete range of the sections and including some of the diminutive and difficult species; the connoisseurs attention was divided between this and the small rockery of Mrs. Seton of Tuxedo and Clarence Lown of Poughkeepsie, that veteran alpine and rock plant enthusiast who must see with affection the greatly expanding interest and popularity that has come to the



At the spring show of the Massachusetts Horticultural Society. Kurume Azaleas etc., by Bobbink & Atkins, with group of Mr. Roland's Acacias in the background

thing in which for two generations almost he has occupied a lone position. Perhaps the time will come when we shall see more of these little rock gardens in actual competition. Why not? G. H. Chisholm also had a rock garden which appealed for its arrangement and pictorial display. The other effort was attractive because of the intrinsic interest of the true alpine plants actually exhibited.

The group of Acacias arranged in a garden effect with a pool of water in the center and giant Ferns to contrast made a fitting terminus to the main vista. It came from that master cultivator J. Stuart who presides over the gardens of Mrs. F. B. Constable. Similar plants have been staged here before but not in such magnificent arrangement.

FOR the visitors who were looking for suggestions in the commercial displays there were plenty of attractions too. Charles H. Totty led with Lilies. W. A. Burpee Company made their characteristic, spectacular contribution of Sweet Peas, including a number of novelties. But the most striking of all was the immense conical arrangement of spikes of Delphiniums from W. H. Duckham, the finest display of this increasingly popular flower that we recall seeing in any American show.

The Garden Club of America conducted its own exhibition in its own way. The usual table decoration classes were handled on the practical basis of cost. A novel feature was the arrangement of flower vases in repetition of the spirit of the ancient and historic flower paintings. It would be impossible to reproduce them in exact detail but the effects are attained in marvelous ingenuity. A similar effort was contributed to the Boston show, but the tour de force in the New York show was the class for dooryard plantings in which there were a number of entries and the delightful harmony with which the planting and the type of door and dooryard was developed made a strong appeal. The pictures on page 275 tell their own story.

America's Greatest Garden

THE far northeast may be notorious for the bleak extremes of its hot summers and cold winters. But a small, yet persistently cheery and delightful volume* from the able pen of E. H. Wilson, as ever one of the sanest, yet most charming of our horticultural writers, now newly reminds us that Puritan Massachusetts, in the face of all climatic handicaps, still possesses its full share of famous gardens, among them one which ranks with the most notable of any land, that "bit of beautiful New England forever preserved as a garden in which is planted all that is hardy among woody plants," the Arnold Arboretum of Harvard University. We ought to look forward to every great climatic area of our far flung land some day possessing a similar monument, the attainment made easier—in some cases, perhaps, only made possible—by the prior work of the great pioneer. As that day more closely approaches the inspirational and educational value of such publications as the one here under comment, popularly written in the best sense of the phrase, yet technically accurate, will come to be increasingly appreciated.

It is hard to comprehend, without visiting the plantation itself or having it set before us in cold print, the astounding magnitude of the work which Sargent, and Wilson, and the other builders of the great Arboretum have done. "All that is hardy among woody plants"!—not an endless list by any means, when New England is to provide the standard of hardiness, but entailing a world of exploration, a ransacking of far corners, and infinite toil and patience in experimentation! As one result we now learn that the Arboretum contains between five and six thousand species and varieties of trees and shrubs, representative of eighty-seven families and three hundred and twenty-five genera. The list is wholly North Temperate in origin. Nothing whatever from the Southern Hemisphere has proved hardy, strangely enough even though gleaned from the High Andes or the New Zealand Alps. However restricted, if we persist in keeping the whole plant world in purview, such a number must include many species which are hardy only with skilful care. "Charity is unknown in the forest and meadow but must be exercised in gardens if our favorite plants are to be happy, lusty, and long lived. And charity reigns in the arboretum."

At first thought it seems very curious that trees of the temperate Orient are found to thrive better in Massachusetts than the majority of those from Europe, but with few exceptions this seems to be the case, and it is not so strange, after all, when we recall what striking analogies are often to be found between the wild plants of China and the characteristic native flora of our Eastern states. Naturally the successful shrubs and trees are in the main coniferous or deciduous. Of all the splendid broad-leaf evergreens, the principal reliance of gardens in the south and extreme west, only a few have been found practicable in the Arboretum, and among these there is but one which attains the eminence of a tree. Thus we find that the Rhododendrons, "most pampered of all collections in the Arboretum," are also "least generous in reciprocation," though one might not guess the difficulties to witness the glory of the Arboretum when these are in bloom. Thus, too, we see that only seventeen of our fifty-five native American Oaks have been successfully established in the collection, while on the other hand of some types, notably the Lilacs and Hawthorns, the representation has become quite the most complete extant. One of the principal phases of the Arboretum's work, from which every corner of the country must eventually profit, is typified by the fact that twenty-two of the thirty recognized Lilac species were originally introduced to cultivation on this continent by the Arboretum.

It is of a collection operating under such endemic difficulties on the one hand, but so wisely and competently handled on the other, that our book treats in a succession of alluring glimpses. While it is not so replete with the personal touches which are the source of so much special charm in the more pretentious works of this author (see especially "A Naturalist in Western China," Doubleday, Page & Co., 1913.) it rises far from the level of a mere guide book to a great public garden. There is a feeling for beauty, for poetry, for drama, running through the book which finds expression in the titles—"Spring Pageantry," "Summer Luxuriance," "Autumn Glory," "Winter Beauty," "Cherry Blossom Festival," "Crabapple Opulence," "Lilac Time," "Azalea Carnival"—no less than in the context. Throughout, the writer's thoughts find expression in such simple yet picturesquely chosen language that the reader soon concludes that the same artistry cannot have been without its influence in the architecture of the garden itself. There is a delightful chapter on Conifers, and a particularly welcome one on "Food for Feathered Friends," often all too unconsidered in our plans. The great technical and educational work of the Arboretum is dealt with in the concluding chapter.

The illustrations are many and of great intrinsic beauty. Indeed, it is difficult to say whether the illustrations embellish the text or the text the illustrations, so fully complementary is the one to the other.

S. S. B.

*America's Greatest Garden: The Arnold Arboretum. By E. H. Wilson (Boston: The Stratford Press.)

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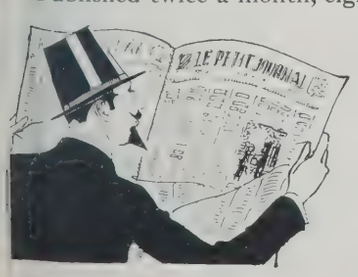

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TRUMPET NARCISSI

Bicolor Victoria—Creamy white perianth or outer petals, with rich yellow trumpet. Doz. $1.85; 100 $14.00.

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Visitors always welcome at our Farms, one mile west of Baldwinsville on the Rochester-Syracuse Highway.

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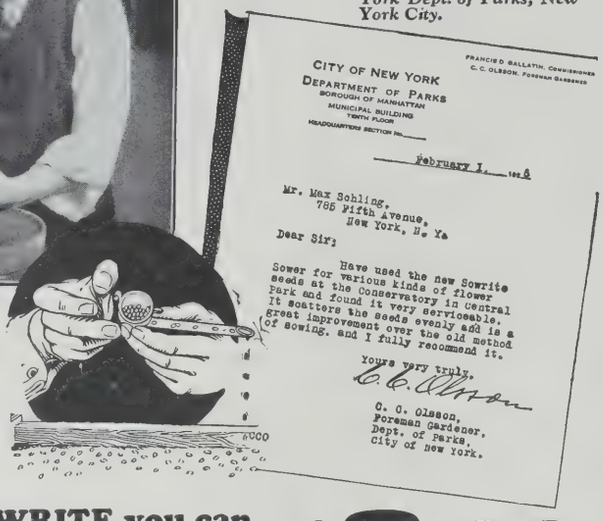
BOX G BALDWINSVILLE NEW YORK

SOWRITE

Mr. Olsson, in one of the New York City Greenhouses sowing seeds with SOWRITE. Read his letter.

"It scatters seeds evenly," says C. C. OLSSON

Foreman Gardener of New York Dept. of Parks, New York City.



CITY OF NEW YORK
DEPARTMENT OF PARKS
BOROUGH OF MANHATTAN
MUNICIPAL BUILDING
TENTH FLOOR

FRANCIS D. GALLATIN, COMMISSIONER
C. C. OLSSON, FOREMAN GARDENER

February 1, 192[illegible]

Mr. Max Schling,
785 Fifth Avenue,
New York, N. Y.

Dear Sir:

Have used the new Sowrite seeds at the Conservatory in Central Park and found it very serviceable. It scatters the seeds evenly and is a great improvement over the old method of sowing. and I fully recommend it.

Yours very truly,
C. C. Olsson

C. C. Olsson,
Foreman Gardener,
Dept. of Parks,
City of New York.

With SOWRITE you can plant seeds like an expert gardener!

WHAT more striking proof of SOWRITE'S practicability than the sincere recommendation of a master gardener—Mr. Olsson of the N.Y. Dept. of Parks! Yet so simple is SOWRITE that even the most amateur gardener can get the results of an expert!

With SOWRITE, Seedlings spring up *separately* and *unchoked!* More produced per package of seeds. Pays for itself many times over in stronger, healthier flowers, plants and vegetables. Full instructions explaining its simplicity sent with each "Sowrite".

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SOWRITE Model "A"

For sowing all fine seeds. Made of tough fibreloid. Metal slide regulates flow. *Use the coupon.* **$1.00 Postp'd**

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For sowing all *large* seeds up to sweet pea size. Metal construction, with adjustable slide. **$1.50 Postp'd**

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FREE! With every order of $6.50 or more

a full-size $1 can of highly concentrated "GROWRITE" FERTILIZER, sufficient for 50 gallons of water.

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Three Styles $1.65 each *Postpaid*

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"SOWRITE" Seed Sower—Model "A" ($1.00)_____Model "B" ($1.50)_____
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Woodland Gems

One never tires of Ferns. They bring the very spirit of the woods to the home grounds and quickly make themselves at home, in most any situation. Among the more than 50 kinds which I grow the following rank particularly high in adaptability.

Selection No. 1—**For open, sunny situations**

Equally charming as a fern border unit or grown as specimen clumps, scattered through the hardy border.

5 Onoclea Struthiopteris, 2 to 4 ft.
5 Osmunda Claytoniana, 2 to 3 ft.
20 Dicksonia punctilobula, 1 to 2 ft.
5 Asplenium Filix-foemina, 2 to 3 ft.

35 Strong Clumps for $5.00

Selection No. 2 **For dry, shaded spots**

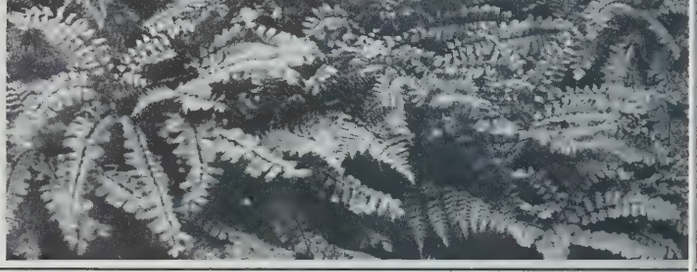
If you find it difficult to grow flowers in a particularly shady space, let these ferns cover the ground for you.

10 Aspidium acrostichoides, 1 ft.
10 Aspidium marginale, 1 to 2 ft.
10 Dicksonia punctilobula, 1 to 2 ft.
5 Osmuda Claytoniana, 2 to 3 ft.

35 Strong Clumps for $5.00

Then there are Ferns for moist, shady places and wet, open ground, for Rock gardens and rock ledges, in short, if you have spots too inhospitable for the average run of hardy flowers, try Ferns. You'll find my free Catalog to abound with suggestions how to use to best advantage Ferns and other lovely native plants and flowers. Please ask for it today.

EDWARD GILLETT **Fern and Flower Farm** **3 Main St. Southwick, Mass**



Fifty-one Floral Delights That Grow Greater Each Year

That's an "honest-to-goodness" promise which the hardy perennials we'll send you will fulfill! There will be Columbines and Daisies and Phlox and Pinks and Hollyhocks and other equally popular Perennials—altogether a carefully chosen assortment of 17 classes, three plants of each kind, covering a long blooming season. We seldom think of plants in terms of bargains but you will find this such:—

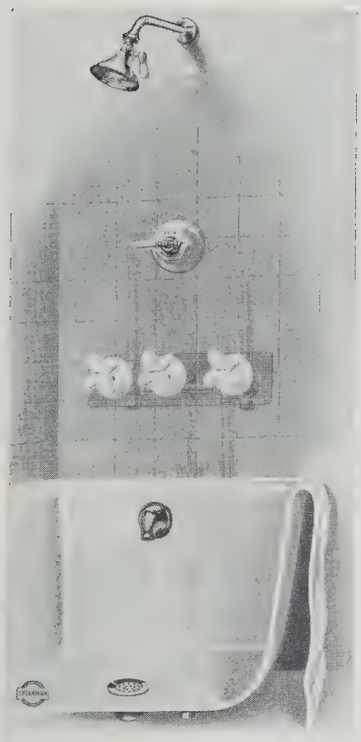
51 Bound-to-Bloom Plants, $5.00

All our Perennials are sturdy, healthy specimens, bound to make a good showing this very first season. We also specialize in Roses, choice Evergreens, and of course, Fruits of all kinds, especially Grape Vines and Strawberry plants. Our catalog No. 117 will prove interesting company to those who garden for profit or pleasure. A copy awaits your call.

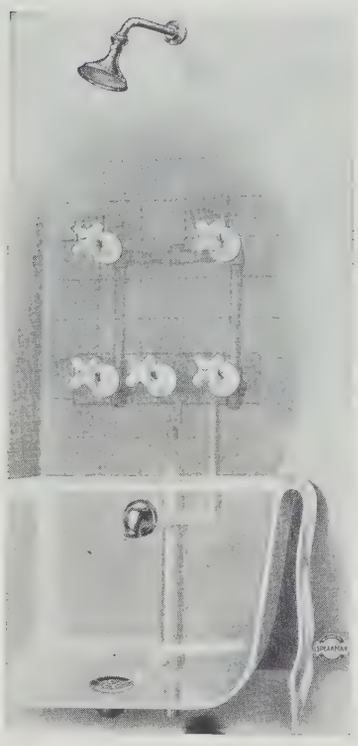
LOVETT'S NURSERY, Box 125, Little Silver, N. J.

The GARDEN AND HOME BUILDER. June, 1926. Vol. XLIII. No. 4. Published monthly by Doubleday, Page & Co., Garden City, N. Y. Subscription price, $3.00 a year. Entered as second-class matter at Garden City, N. Y., under the Act of Congress, March 3, 1879.

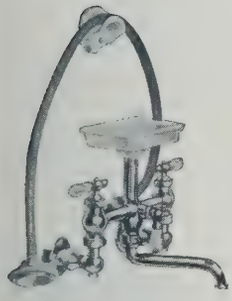
Which of These Showers and Fixtures Will You Install?



H2370—Combination of the H952½ Mixometer Shower and Deshler Bath Fixture.



H2355—Combination of H 1402 Compression Valve Shower and Deshler Bath Fixture.



H1894—Speakman Sink Fixture with hose and a spray head.

CHOICE is a feature of the Speakman line. No matter what your desires are, or how much or little you wish to pay for your bathroom fixtures, there are Speakman products within that amount.

Your plumber knows the Speakman line. He is always glad to install any Speakman products, for he knows that *you* will be satisfied, and that once the installation is made, he can forget about it.

We will be glad to send you booklets and other literature which you will find valuable when it comes to selecting the equipment for your bathroom. Use the coupon if more convenient.

SPEAKMAN COMPANY
WILMINGTON, DELAWARE

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Dutch Bulbs are *grown,* not manufactured. Each year there are only just so many select large bulbs. When those comparatively few select bulbs are sold, all that is left is ordinary sized stock.

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Ask for our special import price list which offers only the cream of Holland's crop. It is illustrated in color, and gives an accurate description of all varieties. The special import prices made at this time stand for a considerable saving. All early orders are forwarded to Holland to be filled with the "pick of the crop." They are handled but once and shipped to us, ready to be forwarded to you.

Lovely Tulips—at small Cost

Knowing how difficult it is—especially for newcomers to the ranks of garden enthusiasts to select sorts from among scores we offer, we can conscientiously recommend the following special offer as holding the very choicest among inexpensive varieties:—

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Inglescombe Yellow—Canary yellow Cottage Tulip with fine, flowers.

100 Bulbs, 25 of each of above 4 varieties, for only $5.00.

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As soon as catalog reaches you, go over it, utilize order sheet and send to us. In proper season bulbs will reach you, together with bill. All bulbs you get from us are guaranteed true to name and will bear perfect flowers, under ordinary care. Please read full guarantee on page two of our catalog, for which we invite you once more to write.

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Largest Growers of Hardy Plants in America

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Perennials

for Vacant Places

By June, vacancies appear in many flower borders where plants have died or been removed. These places must be refilled or the harmony of the group is disturbed.

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Our great collection includes Garden Chrysanthemums, Anemones, Delphiniums, Foxgloves, Asters, Lupins, Primulas, Dianthus, Sedums—in fact every Hardy Perennial worth growing, and many rare items difficult to obtain elsewhere.

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our new catalogue, describes and prices old favorites and new introductions. Blooming season, color, situation, and height are put in a brief, clear way. We shall be glad to mail a copy to all who intend to plant perennials.

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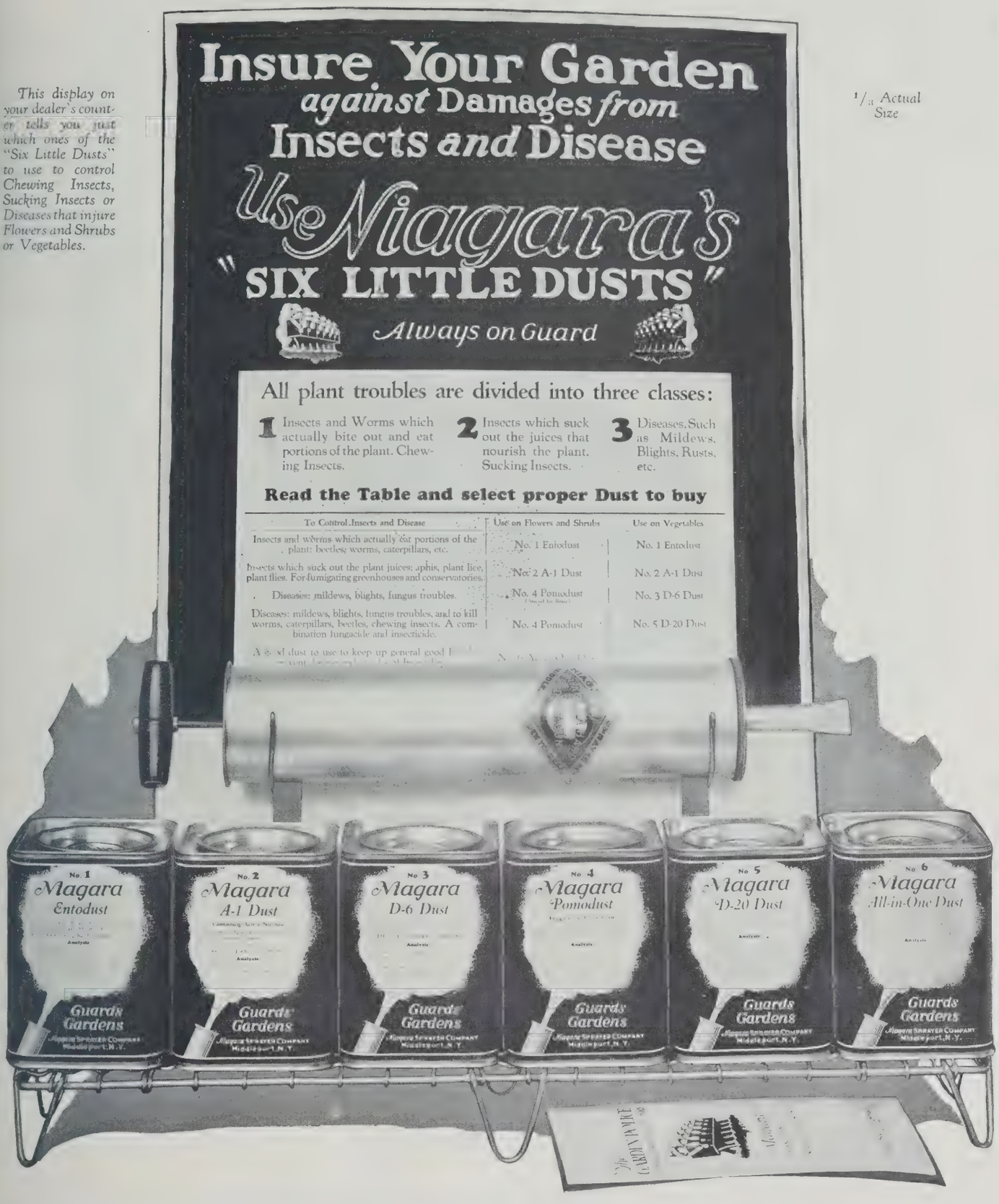
WHITESHOWERS

6453 Dubois Street Detroit, Michigan

This display on your dealer's counter tells you just which ones of the "Six Little Dusts" to use to control Chewing Insects, Sucking Insects or Diseases that injure Flowers and Shrubs or Vegetables.

1/3 Actual Size


Insure Your Garden
against Damages from
Insects and Disease
Use Niagara's
"SIX LITTLE DUSTS"
Always on Guard
All plant troubles are divided into three classes:
1 Insects and Worms which actually bite out and eat portions of the plant. Chewing Insects.
2 Insects which suck out the juices that nourish the plant. Sucking Insects.
3 Diseases. Such as Mildews, Blights, Rusts, etc.
Read the Table and select proper Dust to buy
To Control Insects and Disease
Use on Flowers and Shrubs
Use on Vegetables
Insects and worms which actually eat portions of the plant: beetles; worms, caterpillars, etc.
No. 1 Entodust
No. 1 Entodust
Insects which suck out the plant juices: aphis, plant lice, plant flies. For fumigating greenhouses and conservatories.
No. 2 A-1 Dust
No. 2 A-1 Dust
Diseases: mildews, blights, fungus troubles.
No. 4 Pomodust
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Diseases: mildews, blights, fungus troubles, and to kill worms, caterpillars, beetles, chewing insects. A combination fungicide and insecticide.
No. 4 Pomodust
No. 5 D-20 Dust
No. 1 Niagara Entodust
No. 2 Niagara A-1 Dust
No. 3 Niagara D-6 Dust
No. 4 Niagara Pomodust
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Guards Gardens

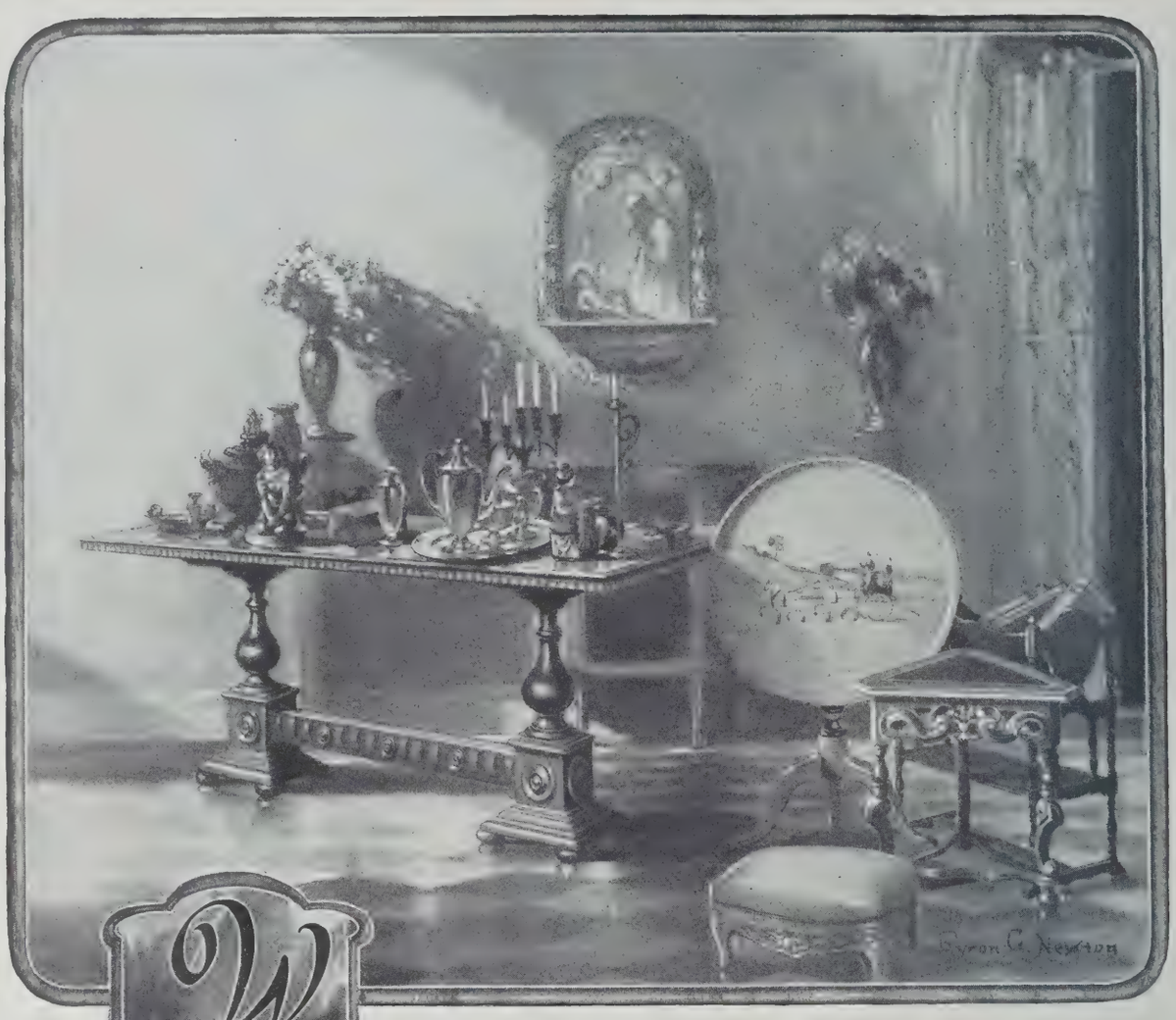
NIAGARA'S "Six Little Dusts," by killing insect pests and controlling diseases, will help you to enjoy the garden to the utmost without the sloppy, mussy bother of mixing various chemicals with water.

The dust, as clean as flour, is placed in the hopper at the end of the Niagara Dust Gun and by short, easy strokes of the piston blown in a thin cloud over the plant. There is no chance of soiling or spoiling the clothes and the entire outfit is so light and easy to operate that any woman or child can rid the garden of insects and disease.

If Your Dealer Cannot Supply You Write Us for a copy of our booklet "The Garden Police"

Niagara SPRAYER COMPANY, Middleport, N. Y.

The World's Largest Manufacturers of Power and Hand Dusters and Dusts for Orchard, Vineyard, Field and Garden



HAT dreams go into the planning of our Bride! How she longs for a home that will reflect the standards of her own culture, rather than the fancy of the passing moment! How many times, alas, must she suffer from some thoughtless friend's costly but inappropriate White Elephant.

However prettily her note of thanks may be worded, be sure that the bride will most appreciate those gifts which combine beauty with long years of real usefulness.

Of such is Elgin A. Simonds Furniture. Give her a handsome library table, a gay lacquered stand for books, or a capacious and smartly-tailored arm-chair for Him; and you will thereafter be an honored guest in her home.

Pieces shown are Library Table 1746, Tip Top Table 2556, Bookrack 1665, Smoking Stand 2509, and Foot Stool 2977. These and other delightful Elgin A. Simonds pieces are shown by Dealers of Distinction everywhere. Ask for the names of the nearest.

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Individualism — in Good Furniture

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GARDEN & HOME BUILDER

JUNE, 1926 *Volume XLIII, No. 4*

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LEONARD BARRON, Editor *LUCY E. HUBBELL, Associate Editor*

JULY—Special Wayside Inn Number

The July issue of GARDEN & HOME BUILDER will be devoted almost entirely to a presentation of the modern story of Longfellow's Wayside Inn. We are privileged to offer a wealth of hitherto unpublished material—pictures, plans, and descriptive matter—of this famous house which conveys a message to the modern home maker by reason of its inherent beauty and good taste.

MR. HENRY FORD himself tells *Why I Bought the Wayside Inn*—the historic old house at South Sudbury, Massachusetts.

The architecture and construction of the Wayside Inn is presented by MR. CHARLES G. LORING, one of the most prominent architects in New England, with intimate knowledge and local association, and is accompanied by measured drawings and exact reproductions never before made public.

MRS. SARAH M. LOCKWOOD, acknowledged authority on antiques and author of a recently published book, "Antiques," made a special visit to the Wayside Inn, stayed there and made an exhaustive study of the interior of the house. She treats of the furniture, decorations, and general equipment of the house and discusses in detail the most interesting pieces as they may be seen to-day. Mrs. Lockwood's article is illustrated with photographs specially made and reproduced in large scale.

The story of the gardens contrasting the present-day gardens with what was characteristic of the garden in the days of the Wayside Inn's activities is given by MR. ROBERT S. STURTEVANT, Landscape Architect, and member of the faculty of the Lowthorpe School of Horticulture.

Seasonal garden topics, will, as usual, be included. *Dieting the Delphinum*, by LINDA G. HINES offers the case for the control of the blacks disease by proper soil treatment. M. G. KAINS contributes *Ammunition of the New Warfare*, explaining how the control of plant pests is made easy by the findings of modern science. SUSAN T. HOMANS, has *The Quest of the Unusual in Irises*, or Stepping Beyond the Conventional Into the Realm of the Connoisseur, an article which will appeal to the Iris enthusiast.

Help will gladly be extended to any one desiring information on garden planning, home building, community planting, and other topics discussed on these pages or of special interest to readers. It will expedite matters if inquiries are sent direct to the Editors of GARDEN & HOME BUILDER.

If you have been saving your copies of GARDEN & HOME BUILDER and want them bound for ready reference, we are glad to offer that service at $2 per volume; if you have not saved your copies complete bound volumes may be had for $3.50, upon application to Subscription Dept., GARDEN & HOME BUILDER, Garden City, N. Y.

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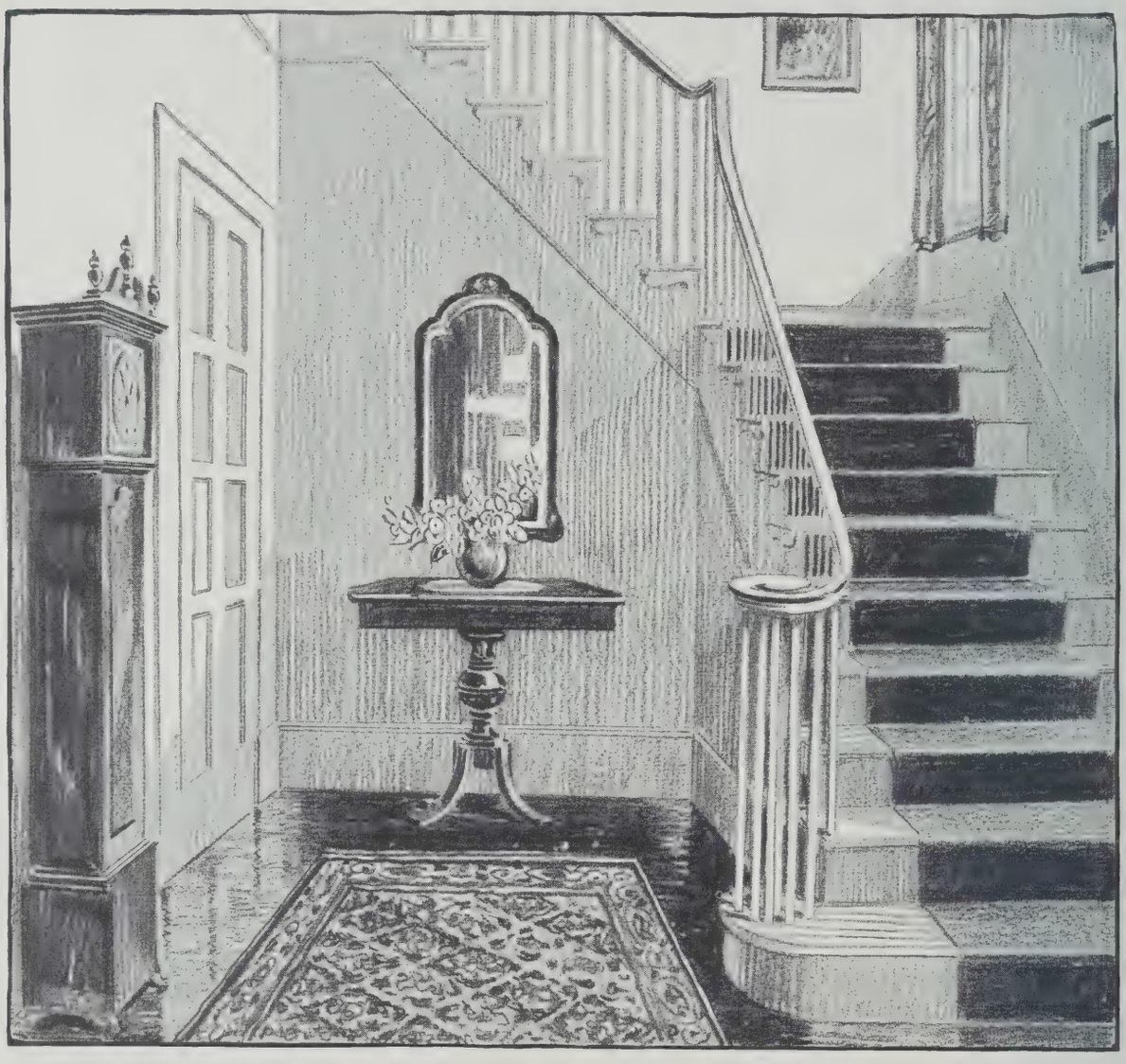

THE HALLWAY is the silent yet eloquent herald of your home. It must sound a warm note of welcome and subtly announce the character of the more intimate rooms to come. Let it be an entering place of quiet charm and refined simplicity. Let it be cordial without being pretentious, tasteful without being extravagant. Let it be just such a room as W. & J. Sloane are experts in furnishing.

W. & J. SLOANE

47TH STREET AND FIFTH AVENUE
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GARDEN & HOME BUILDER

Vol. XLIII, No. 4 *JUNE, 1926*

News and Comment

LUTHER BURBANK has passed away. He had lived for many years in a glamor of publicity and esteem among his fellowmen. He was a mystic, a genuine plant lover with an extraordinary, uncanny capacity for observing minute variations in plant characters. He was not a man of scientific attainments and the methods of work which brought him into public notice and fame were not in any great degree, if at all indeed, different from those practised by thousands of other plant cultivators, professional horticulturists and florists everywhere.

Now that he has passed into history, the question may be asked: What has he given horticulture? Really very little that was original or even new. But what he lacked in actual achievement was compensated for by his enthusiasm, intensity of interest, earnestness, and sincerity. For notwithstanding all that has been said from time to time of a distraging nature concerning Burbank and his work, there was underlying it all the human sympathy and sincerity in his personal relationships that, after all, was inspiring. The fact remains that those who knew him personally did really enjoy the acquaintanceship. Much of the exploitation that has been done in his name—which may have been unfortunate inasmuch as he lent tacit acceptance to it—was not of his own creation nor instigation.

BORN in Maine, not physically robust, he made the journey across the continent to establish himself on that spot on the Pacific Coast which has since become associated with him and his works. That he was a pioneer in that new region accounts for a great deal of the notice he attracted—that, added to his personality and sincerity. He was an industrious hybridist and so is many another man who makes his living in the cultivation of plants. Burbank was an idealist beyond the sphere of his commercial operations. He delved into realms of philosophy and speculation outside his ken.

A few things he has given to the world, notably (as has frequently been said) the Burbank Potato, which he produced before he went to the Pacific Coast. Since that time, favored with a benign climate, he continued his work, but it was in the matter of making selections of individual variants and cultivating them into strains that his real achievements are founded rather than on actual hybridization. As already stated, he was not a scientist nor was he scientific in his methods. He kept no records, because as is the case with many another practical horticulturist, he was too busy with the actual work and the immediate result to bother about the record which, after all was of no moment to him.

WHEN the Carnegie Institute proposed cooperation in his work with a large money grant to enable him to proceed, it was accepted; but conditions becoming irksome, the agreement was abrogated by mutual consent shortly after.

Other horticulturists have given the world many more definitely worthy and tangible results in individual cases, but Burbank has this much to his credit: he attracted attention of the great multitude to the intricate and resourceful processes of nature in reference to plant improvement and varietal variation and selection. His name will live, and his example as an inspiration cannot be forgotten.

OF FADS AND FAIRY PLEASANCES

WE LAUGH merrily or scornfully, according to our temperaments, at some of the gardening fads of bygone days. But we have a few of our own that may provide food for laughter in days to come. One fad in particular I have long wanted to see challenged; and if none of the great in gardening circles will take up the matter (though I have never heard many—or indeed any—of them advocate it), it remains for one of the nobodies to say her little say. Apologies are in order for the excessive use of the first person singular; but this is bound to be in a mere statement of personal opinion.

The fad to which I refer is the treatment of the garden as an "outdoor living-room." We are advised, in nearly every magazine and in many books, to consider our gardens in this light. Landscape architects are probably the originators of this idea, as is natural enough, for they are first cousins of architects and interior decorators. I think the great gardeners do not agree with them. I have never seen that phrase about living-rooms on the pages of books by William Robinson, E. A. Bowles, Miss Jekyll, Mrs. King, or Mrs. Wilder.

WHY in the world should a garden resemble a room? A room is meant primarily for use:—for eating, or sleeping, or cooking, or reading and writing. A garden need not serve any practical use at all; it may, as much as any of the fine arts, be designed only to give delight. (Of course a vegetable garden is a practical thing, and purely utilitarian, though it may be very agreeable to the eye; but it is never the vegetable garden, but always the pleasure garden, that we are exhorted to plan on the principles of a room).

Personally, I think it always fails as a room. A porch or summer-house serves every purpose of coolness and fresh air in summer; it is possible in them to have much more comfortable chairs, with none of the unevenness of ground or sun glinting through tree leaves on the pages of a book, which are always present when we sit outdoors. Never have I seen a single mention of annoying insects in the articles that advise us to sit, eat, sleep, in our gardens. Is it possible that mine is the only garden where they abound?

Of course any truly loved and enjoyed garden has some sort of seat in it, so that the adoring gardener may flop down in the shade and take pleasure in all his eyes rest on. But there is a great difference between having a a seat in a garden, and having a garden built up round a seat.

This idea of the "outdoor living-room" seems inevitably to lead to one or two of our other present-day fads. Maybe it is not the cause of the lamentable standardization of gardens, but I think it is partly to blame for them. Take the idea of design, for instance. Of course a certain amount of good design is almost necessary in a garden; certainly in a big garden, though I am not so sure a small garden needs as much as is sometimes forced upon it. But— rooms are rectangular, and so now must gardens be. How much we hear at present of the garden axis! *Must* a garden have an axis? I do not think so. Look at the monotony we get from a too general application of this rule—the "axis" formed by a long straight walk leading to "some point of interest," the "quiet space of lawn," the "border of flowers along the sides." We do not need to be utterly higgledy-piggledy, even if we disregard these rules, and plan our gardens to suit ourselves and our special conditions. We must use our sun and shade where we find them; also our trees where they may happen to stand, if they were there before us.

AGAIN, it is fitting and pleasant to work out certain color schemes in the rooms of a house. But in a garden—well, I cannot do better than quote the inimitable jeer of Mr. E. A. Bowles on that subject: "I fear I am a little impatient of the school of gardening that encourages the selection of plants merely as artistic furniture, chosen for color only, like ribbons or embroidery silks."

It seems to me that the main reason for having a garden is that we may enjoy it. It can be a pure delight. But not everyone is delighted by the same thing. Design and color are very well in their way, and they give the greatest pleasure to the gardener who is an artist in his work. But not every gardener is an artist. Some are botanists by instinct, some are collectors. Maybe I could get far more beautiful effects by using a mass of a dozen clumps of one special variety of Iris, but I should always prefer the interest of a dozen different varieties. Doubtless I could have a more flowery place if I stuck to the comparatively few flowers that I know from experience do well here; Tulips, German Irises, Phlox, Zinnias, and Chrysanthemums would fill the garden with bloom from April to November. But I want to plant *all* the flowers I love, and then add others that I have read about. This gives me sadly many bare spaces and bare weeks. But I am happier so. And if my garden at all resembles a room in a house, it is certainly not a living-room, but a laboratory; or—if that sounds more scientific than I really am—a play-room!

—AGNES FALES HUNTINGDON.

Philip B. Wallace, Photo.

Home of Mr. C. W. Morris at Haverford, Pa., designed by Mellor, Meigs & Howe

"We have a secret kingdom of our own!
. . . in its little space we keep
Wonder alive and loving kindness warm"
Leslie Nelson Jennings

In the Garden of Mr. Herbert S. Gay at Orange, New Jersey; Clarence Fowler, Landscape Architect

One of a very interesting group of gardens recently exhibited at the Arden Gallery by the New York Chapter of the American Society of Landscape Architects

Mattie Edwards Hewitt, Photo.

An Old Home on the Hudson Which Has Been Adapted to Present-day Joys (see article by Mrs. Colton, opposite)

"Fain of idleness, forespent,
We are dreamily content
To abide the gliding hours"
Clinton Scollard

Converting Old Homes *to* Present Day Needs

Amy Richards Colton

Photographs by Mattie Edwards Hewitt

IN AMERICA many young couples decide to build their own homes—either with or without the wherewithal—thereby gratifying a primitive instinct. When they have taste, practical ability, enough money and wise advice, the result may equal their dreams. It is seldom, however, that people have the luck to start under such perfect conditions. Before they know it there is the prospect of spending twice what was planned (borrowed capital probably) and being inexperienced in reading plans, or in planning for their own needs, and with no capacity for visualizing their own ideas, the house of their imagination becomes a dismal failure, with the prospect of becoming uncomfortably deep in debt besides.

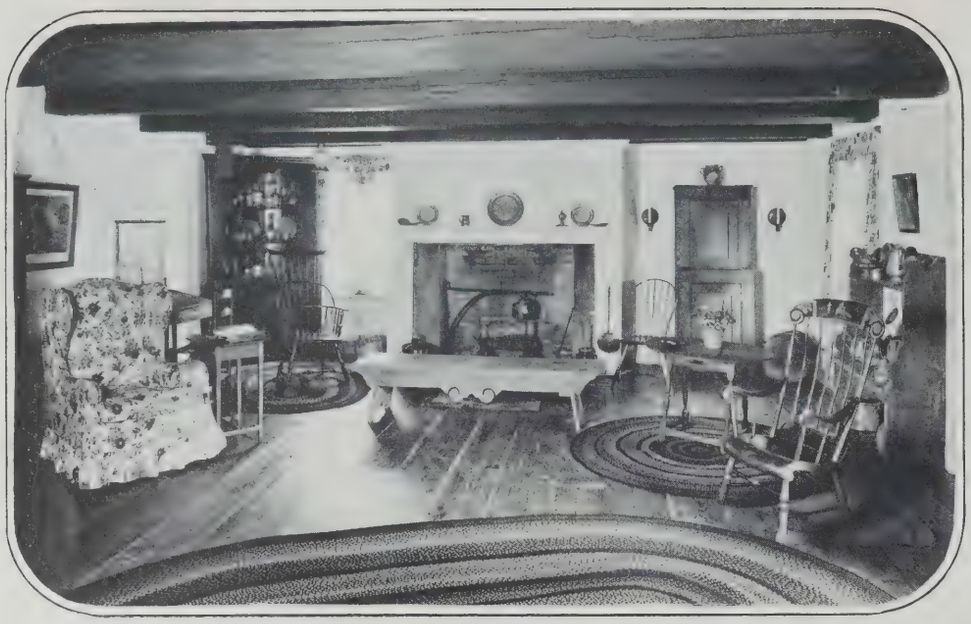
There is fortunately an alternative scheme for both owning your home and to a certain extent creating it. By this scheme the cost will not only be less, but can be more accurately computed beforehand, and a shorter time spent before moving in. It consists in the simple expedient of buying some interesting old house in reasonably good repair, which in size, style, situation and locality corresponds to one's requirements for a home. It goes without the saying that too dilapidated a house, with no modern improvements, may cost almost as much as a new one, by the time all the repairs and changes are made; but if the house is structurally sound, and needs no extensive additions, involving excavations, roof-enlargements, etc., it is certain that much money will be saved, as against building from the ground up. Obviously much time will also be saved, and it will be easier to imagine what the whole will look like, when only minor changes are made and personal touches added, than when an entirely new house is built from plans.

No matter what materials an old house has been built from, time has softened and given a patine to their surfaces, which adds a charm that no trick of building can supply. An old house has also had time to grow into its setting. The trees it is surrounded by are fully grown, not raw youngsters from a nursery, and any garden it possesses is an integral part of the scheme. Where the trees are too many or too heavy, they can be removed and turned into firewood, or trimmed; and if the garden has nearly disappeared, its outlines are there to build from.

A blending of antique furnishings of slightly different periods and from different countries into a harmonious and livable whole. The stone end of this room (formerly the kitchen) is original, but the fireplace has been added

THERE is a power of suggestion and no end of fun to be gained from a fine old house and garden, that preceding human beings have also had their fun from. Comparatively speaking, how few new dwelling houses are built to-day in Old World countries, yet what hosts of old ones have grown

This fine example of Dutch Colonial architecture was built about 1726. The stone part of the house is original, but the wooden additions have been so cleverly made by the present owners that they seem to belong to the old part of the house as does the garden which is especially beautiful and almost entirely new



Large Dutch Colonial living-room, originally divided into two rooms. The heavy hand-hewed beams, huge fireplace with crane, and deep set windows are all characteristic of the period as is the furnishing with its home-like and inviting effect

with times and succeeding generations to an enchanting and mellowed whole, each owner adding inside or out some feature that contributes individuality and character.

To those whose work ties them to a city, the quest of an old house, not too far away and yet far enough to give the illusion of the real country, seemed well-nigh impossible until cheap motor cars made it feasible to live several miles from a railway station.

The present cost of wood and its comparative perishability, are gradually making the use of it for a building material less popular than formerly, and stone, brick or stucco are coming into favor, as they did centuries ago in Europe, when wood became too scarce and costly for domestic architecture.

It has always been a rarity to find a stone, brick or stucco house throughout rural New England; but the early Dutch and German settlers of New Jersey, the Hudson River valley, and Pennsylvania, clung conservatively to the brick and stone of their European forefathers, and the Colonial houses of these regions, whether manor houses or simple farm houses, were almost invariably built of local stone or brick, with the upper parts, roofs and dormer windows in wood. These Dutch Colonial houses have a distinct style, full of charm and picturesqueness (see page 341), and they adapt themselves to modern usage extremely well. Few people are aware of how many of the simpler kind are still to be bought reasonably, within twenty or thirty miles of New York, in northern New Jersey, over the border in New York State, along the Hudson River valley, and the valleys back of the river, lying parallel to it.

They are usually surrounded with good trees, have outbuildings, and at least the rudiments of a flower garden, with the added attraction, thrown in for good measure, of ancient Grape vines clambering over rustic arbors, than which few growing things combine greater picturesqueness and usefulness. They generally contain on the ground floor, well proportioned rooms of good size, large open fireplaces, with simple carved mantelpieces, and hand-hewn, exposed beams, weathered with age. The floors have the original wide boards, either weathered with age or painted.

The larger houses are apt to have a central hall running across the house on the main floor, with a door at each end, and off this hall the principal rooms lead. So much of the country is uneven where they are built that they have the added charm of irregularity, conforming themselves to the shape of the land. When these houses are built on hillsides, they generally have one and a half stories on the side against the hill, and the free side, where the hill slopes away, may be two and a half stories in height (see page 343). In such a house the hall may open out, on the hillside, the level of the ground, and be a story above the ground on the other side, where it may open on a veranda, built with two stories, as in the South. This double veranda is quite a common feature in the Dutch Colonial houses of the later period, and when it is at the back of a house, a sleeping porch can be improvised with little change or expense, nettings being

A fine 18th Century example of native stone, whitewashed, which fits especially well to the contour of the land. Additions have been so successfully made that it is difficult to tell where the old and new parts join. Hollyhocks add a delightful color note and at the back there is the living terrace under an arbor

Typical Dutch Colonial dining-room furnished in perfect harmony with the period of the room. All the furniture is original, varying enough in its dates to create a livable effect

the only additional requirement. The roofs of these houses sometimes project with an upward curve, and make the roof of the upper veranda, the posts of which form the supports to the roof extension. In houses of two and a half stories on one side, and one and a half on the other, the ground floor originally contained only one or two rooms, one of which was the kitchen (see page 341). The next floor would have the long hall running across the house, and off it the parlor and principal bedrooms. The third floor or attic would be either a large open storage space, with a window at each end in the gables; or it might be further lighted by dormers, with a few tiny bedrooms partitioned off. In any case the largest part of the space would be an open attic, for drying vegetables, and piling away all sorts and kinds of possessions.

IN RECONSTRUCTING these houses the attic can be developed into an airy bedroom floor by the aid of dormers, and leaving an air space between ceilings and roof. The second floor may contain one or two bedrooms and a living-room, as well as the long hall; and the ground floor will have a dining-room and kitchen. In a small hillside house, the large ground floor room may suffice for dining- and living-room, the upper floors having bedrooms and bathrooms only, and a portion of the top floor still be left as an attic.

When one finds these houses, the windows are divided into small panes, and have two sashes, the lower one being the only movable one, a very trying feature in summer. The ingenious owner of the house we live in devised the idea of removing both sashes, and resetting them with little change and expense, as double casements, by merely shaving off the parts that overlap, and fitting patent fasteners to hold them out when open, and in place when closed. Thus for very small expense, workable casement windows can be achieved. From the point of view of picturesqueness, and coolness in summer, as well as architectural suitability, there is no comparison between them and the stuffy, fixed, double hung sashes. It is easy to arrange about mosquito nets by opening the windows outwards, and the frames for the nets inwards, on hinges.

When originally built, in the late 17th, 18th or early 19th centuries, these old houses usually had one compact section; but when the family enlarged or the owner grew more prosperous, an extension would be added, lower in roof line, at one end of the main house. Sometimes a third section would be added to the second, or, to make a better balance, thrown out at the opposite end of the house. Either plan offers a suggestion to anyone who buys a Dutch Colonial house of insufficient size. To my own taste, the houses having the new sections all added at one end, each one diminishing in height, are the most picturesque. This treatment makes an interesting roof line, and inside the house one often goes down a step from one section to the next, if

(Continued on page 382)

Front of Dutch Colonial cottage facing east, about one hundred years old, with which many picturesque liberties have been taken. Built of wood with wide clapboards in soft salmon pink and native rough stone; window trims and doors bright bluish green. View toward north through fine old Sycamores, Locusts and Tulip trees. One-and-a-half stories on one side and two-and-a-half on the other, this house is built on a side hill

Facing south, this litt
balcony not only makes
delightful outdoor dinin
place but actually improv
the appearance of the hou
(see below before alteratio
Home of the author
Plainfield, N. J.

Adding a "Garden Door"

Another Way of Improving the House You Have

Dale Warren

Photographs by the Wardner Studio

"If you'd have a mind at peace,
A heart that cannot harden,
Go find a door that opens wide
Upon a little garden—"

GETTING from the house to the garden is not always as simple a matter as it sounds. Front door, back door, and cellar door all have their drawbacks.

If we are building a new house we can readily specify a fourth door, a "garden door," so that we may be able to go and come as we choose. But if we have no anticipation of building, let us not give up the idea of a garden door. We are merely confronted with question of house alter tion and there are man ways of solving it. On practical method of a complishing this is illu trated by the accompany ing photographs.

A dining-room windo was cut down and replace by a door which lead directly into the garde A full-length glass door French window, althoug frequently desirable wa in this case, purposel avoided, because it woul have destroyed the sym metry of the interior. Th type of door selecte breaks in the middle s that from the inside on stillgets the effect of th window. (*Continued on page 41.*

Redeeming Victorian Gimcrackery

How Even the Very Ugly House May Achieve Some Semblance of Beauty

by

Wesley Sherwood Bessell

Architect

THERE really seems no greater service an architect can do than to introduce hope into the muddle of inherited architecture, for the countryside is literally bestrewn with droppings from the Victorian period, a period of semi-sophistication which had neither the directness of the Colonial nor present-day refinement to give it charm. Well built, many of those houses are, and worth redeeming, not only for the sake of the individual owner's comfort but as a lifting of architectural standards for the community at large. Ugliness, like ill-temper, is pervasively depressing and beauty carries with it all the buoyant contagion of good nature—people work best and live most happily in places where eyes and soul have something to feed upon. It is heartening to know that the work of rejuvenation is being carried on by such able members of the profession as Mr. Bessell; and this little group of houses which have been shepherded into a graceful simplicity not only bespeak the architect's skill but stand as beacons for the home owner not content with the worst when better may so readily be had.—THE EDITORS.

WHAT an ungodly amount there is of it—sordid art—you see it here, there, all about you, it envelopes one so, there is no getting away from the thing. A journey through the country affords no relief whatsoever, it only accentuates the horror, and the most terrifying thought is, that we live in it, we raise families in it, and they who have passed, and they who are here and are coming, accept it without revolt or complaint.

Much of our domestic architecture is the "whatsis" to which we refer. Born of an unholy thought this miscarriage of art, this child of a distorted mind, is now the dominating feature of our country. It is like a blight that has destroyed nature, those Mid Victorians', Queen Mary Annes', and Early Eighties', the result of a period of semi-sophistication. It has always been a mystery to us as to what manner of bewhiskered devil with a prolific pencil propagated these masterpieces of gaucherie. Certainly intelligence had no hand, positively, for where there is intelligence there is Art with a big A, and in abundance.

Well, what is to be done? Are we becoming educated enough to realize that much ugliness is with us, and should be removed. Do Mr. & Mrs. E. Joyce Jones know, when they purchase the house with the cupola? Or do they puff with pride at the township paper's writeup, relating how they have recently moved into the charming (?) home of our former illustrious banker, Mr. W. Watford Watkins, whose demise was most unfortunate for the town of Watkins Centre, due to his interest and unfailing help in all things appertaining to the Arts, and the general beautifying of the town. It is interesting to note that Mr. & Mrs. E. Joyce Jones are showing a desire to continue the excellent work of the late W. Watford Watkins, by having the house painted in four different colors by our local painter, Mr. J. Browser, and further, they have given Mr. Browser carte blanche insofar as painting the two beautiful

No. 1. Home of Mrs. O. G. Boyle at Hackensack, New Jersey, which has been shorn of objectionable gimcrackery (see left) and has achieved a pleasant simplicity (see right, also two views above)

No. 2, and No. 3 Two seaside cottages at Sachem Head, Connecticut, that have been skilfully transformed from the cheerless shells shown in the small lower pictures to the comfortable dwellings above. Mrs. E. B. Walden is the owner

cast-iron fountains are concerned. The reader will recall these two choice bits of art as "Psyche Out of the Rain," and "Cupid Protecting Youth," both have been greatly admired by visitors to our beautiful town!

Well, when Main Street turns its back on the gingerbread era and its face toward simplicity the architect's first job is what to do with the old "Keith's St. Louis" house. Certainly there are many things to do, with a saw especially, we remove the overhangs, the fancy icing and the paper cutouts, windows are carefully revamped, and that darling cupola is removed to recupe no more, and the bulbous overhanging on the third floor has an operation for the removal of unnecessary adjunct. Oh, yes, the dark beaded board varnished ceiling porch makes way for sunlight into rooms that "old man Gloom" prayed in, and a new doorway adds caste.

MANY are the Main Street houses in this country that with saw and axe can be made intelligent looking, strange though it may seem that such crude instruments are the arbiters of intellectual architecture. But these simple implements may remove most of the objectionable excrescences dominating that period, therefore, let us use axe and saw to advantage.

Accompanying this harrowing tale are a few examples of the tribe of scenic killjoys referred to, before and after the operation. No 1 (preceding page) was a typical suburban hebygeeby, and the porch rocker went with it. No. 2 (above left) is a seaside cottage, the owner wanted to know if it could be brought down in appearance, or if we had not better use dynamite. Well a little more money was spent, and now it has settled down close to terra firma. No. 3 (above right) is also a typical seaside cottage. The operation cost was small, the change apparent. No. 4 (see left) was in a bad way, but there is a lot more warmth to it now, and the changes were not many.

Don't give up hope if you happen to be the possessor of one these houses of the gimcrack period but get yourself an axe and saw, and cut your way toward simplicity!

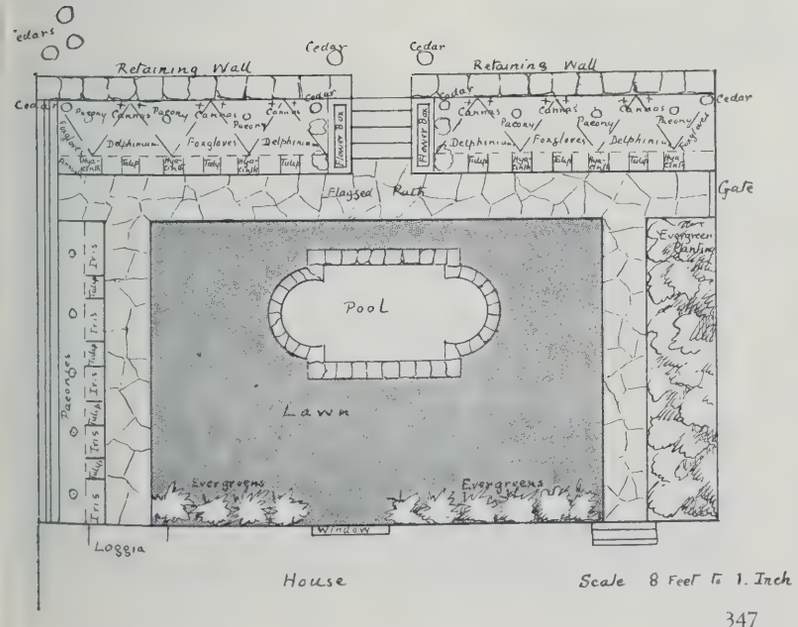
No. 4. Substantially unchanged and yet conveying an utterly different spirit as the "before" and "after" pictures show, this dwelling of whitewashed brick is now the home of Mrs. George E. Hull at Short Hills, N. J.

A Little Garden That Echoes Italy

At Villa Octavia, the Connecticut Home of Mrs. Thomas R. Felder

Lilian C. Alderson
Landscape Architect

Photograph by Karl La Roche



Impossible to convey in a black and white picture the symphony of color in this small 28 x 43 ft. garden whose gaiety is adequately enclosed and offset by walls of soft shrimp pink, the cobalt blue of window frames and trim, black doors and other bits of color on the house itself.

"When I was asked to plan a flower garden," writes Miss Alderson, "I naturally chose the angle formed by the main part of the house and the kitchen wing, for here it was possible to make an enclosure. The first step was to cut into the bank and build a retaining wall as the house stands on the highest point of a rocky hillside. The paths were laid in broken flags set in cement (see plan) and there was just room for a flower border between walls and walk. A flight of steps led up to the second terrace pictured above. Cedar and Rhododendron were planted against the house. As the initial work of construction was not finished till the end of June, it was too late to plant perennials, so that for the first season annuals were depended upon for color. The second year plan included pink and deep blue Hyacinths, Lady Derby and Grand Maitre, followed by ten of the choicest varieties of Darwin and Breeder Tulips, flowering with Iris Fritjof or Solfatare. Then pink and white Peonies and alternate groups of Foxglove and Delphinium with salmon-pink Cannas, Verbenas, and Heliotrope for later bloom, and over wall and balustrade Roses American Pillar, Alida Lovett, and Dr. Van Fleet."

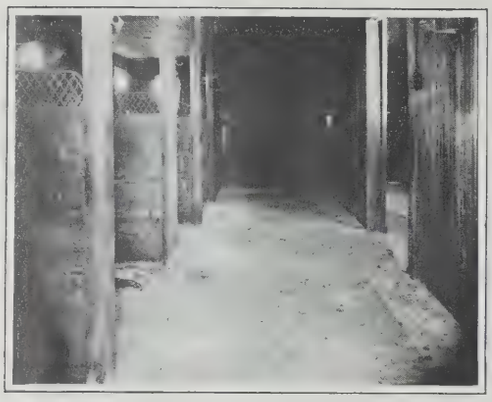
An Old Stabl

by

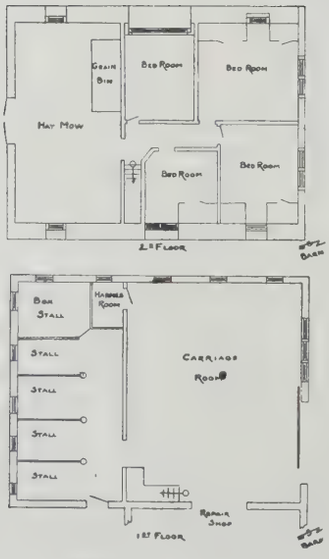
Miriam Stokely Lynch

Photographs by George Seruset

"Tally-Ho Lodge" as it stands to-day (above) sturdy, trim, and homelike. Its genesis was the 35 x 44 ft. stable shown at right and which remains substantially unchanged outside except for added doors and windows



The old stalls which have been converted into the trig, tiled kitchen shown on the opposite page



Original plan of the stable

The carriage room (above) retains almost its original noble proportions of 34 x 21 ft. and has been transformed into the cheery living-room (right) with its three pairs of French doors opening south onto a brick terrace

IT IS the day of the automobile; of hotel apartments; of "one servant" houses with two-car garages set on sixty-foot plots. Make way for the motor age!

To be sure, many of these old houses were gloomy and ostentatious. And what of the stables? From our modern viewpoint they were more home-like than the old mansions themselves which have given way.

Last spring we decided to buy one of these old stables and to turn it into the cozy cottage which we now call "Tally-Ho Lodge." This Dutch Colonial one was chosen because of its location at the end of a little by-way running for about three hundred feet into a busy avenue.

Away from the confusion of traffic, we are at the same time within easy walking distance of the school, stores, and station. Another factor in our decision was the grounds, three quarters of an acre in size, with the lovely old Maples, Osage Orange hedges, and shrubs.

It was not necessary to move the building as it complied with all the requirements of the village zoning law as to "set-back" from the new street, proportion of property for side and back yards, etc.

The house faces east. It keeps its original proportions, thirty-five feet wide and forty-four feet long. It has stood for twenty-seven years on a splendid brick foundation and shows no signs of sagging. Of course, the lumber of which our house is built is almost not to be procured to-day. The "two-by-fours" really measure two and a half by four and a quarter inches and the beams and rafters

ecomes a Home

A Successful Reconstruction That Made a House of Sturdy Individuality at Substantial Saving in Cost

ire much sturdier and more numerous than nodern builders seem to consider necessary.

Except for taking off a superfluous wing on he south side (using the splendid timbers in ther places) and cutting nineteen additional loors and windows on the south and west ides, the outside of the building remains unhanged.

The greater part of the lower floor was a arriage room, opening on the front. This is ow our living-room in almost its original roportions, 34 x 21 ft.

A partition divided this carriage room from he stalls and harness rooms in the back. The ntire floor was of brick, covered with a thick ayer of concrete, and the ceilings were eleven eet high.

In one corner of the carriage room was a turdy stairs (which we later utilized in the ellar) and mounting these, we found twohirds of the second floor given over to a hall nd four finished rooms which, of course, had een the quarters of the vanished coachmen.

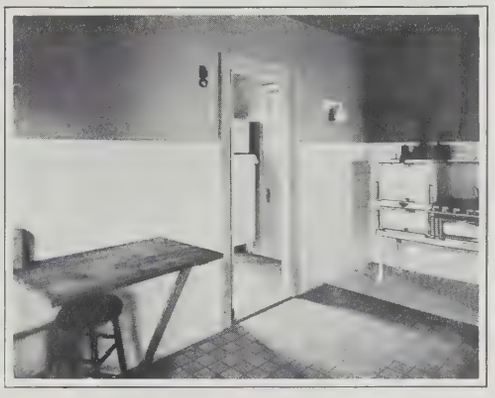
The rest of the upper floor was merely a hayft. But this humble loft is now a gorgeous aster's bedroom, 25 x 16 ft., with south, est and north exposures. It has four large indows and a glass door leading onto an x 10 ft. balcony.

From here we watch in close sympathy, the squirrels, robins, nuthatches, and thrushes arting in and out of the hedges and building the spreading Maple boughs.

The four rooms that once spelled home to ne departed coachmen, with really very little emodeling, we converted into a hall, two

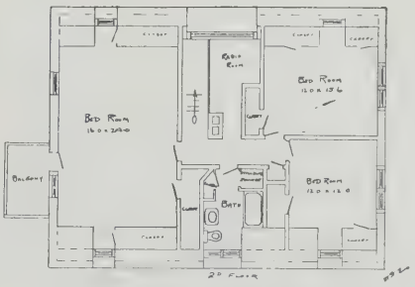
(*Continued on page 388*)

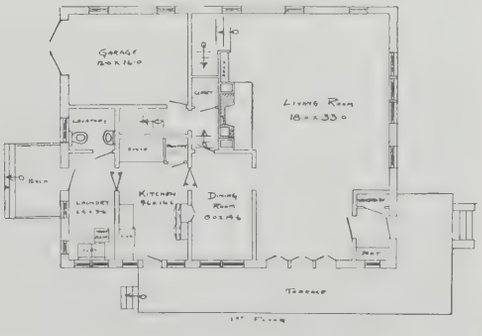
A superfluous wing (see left) was removed and the garage put in the least desirable corner of the house at the northwest leaving the concrete floor as originally found. The lovely old maples were a deciding factor in the choice of this place as a home



The kitchen with its tiles, gas range, and other up-to-date devices has supplanted the stalls (see opposite page)

The humble hay-loft shown above is now this splendid bedroom, 25 x 16 ft., with windows on three sides and a glass door opening on to an 8 x 10 ft. balcony





The present plan of "Tally-Ho Lodge"

Rather amazing that mere man should be able to manipulate water so as to produce at will either the rushing waterfall shown on the opposite page or such a tranquil surface as this. Garden of Mr. William E. Caveny, Glenside, Pa.

Man-Made Lakes and Ponds

The Picturesqueness of Water and Its Possibilities for Recreation—Ponds That Prove a Cash Investment

Norman K. Morse

Landscape Architect

Illustrated with Photographs of Work by Morse & Morse, Landscape Architects

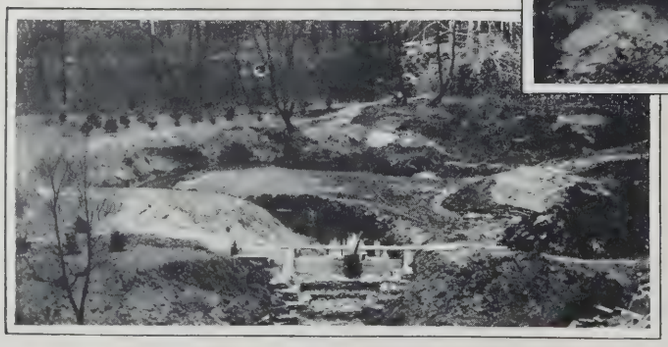
THE little stream winding lazily through a meadow with an occasional gentle fall usually has wonderful possibilities as an all-year source of delight. A dam in just the right place will transform the landscape, accenting the changing season right through from spring to spring and will add many new pleasures for recreation.

We can all picture the early leafing of trees and shrubs along the banks of a pond; the warm sun seems to have more power to swell the buds where it reflects on the sparkling surface. In the summer the inviting, cool water lures us either for a swim or a quiet paddle. Autumn is glorious with reflections of Maple, Beech and Hickory, and winter beautiful and quiet with long shadows and snow contrasts.

If the conditions are favorable a surprisingly small amount of water will be sufficient to form a lake where swimming, boating and skating are possible and even under adverse conditions a congenial place for Water-lilies and interesting bog plants can be made.

There are various ways of forming dams, but, regardless of the method chosen, just so long as it is practical and will remain so, the pond will be an increasing satisfaction to you and your friends.

The old mill dams were usually built of logs, brush, and clay, when there was enough water in the stream to offset the inevitable seepage. When the stream was small and it was necessary to conserve all the water for power, the masonry wall was the usual construction. This method is better than the first, but subject to frost action which breaks the mortar, gradually loosening the stones. Most dams now are built of concrete whether they are the wonderfully complicated affairs for water systems and water reservation projects or the



Two views of the pond on Mr. Kerrigan's place (see opposite page also); the small picture at left shows the core-wall built overflow ready for use and, above, the finished effect

simple dam for formir ; a lake to beautify the landscape on a cour try place.

In dams for forming ponds or lakes up to two or three acres, the concrete core wall is quite practical as its principal function is to eliminate seepage caused by muskrats and crawfish. The wall is banked both inside the pond and down stream by soil excavated from the basin of the lake. This excavation gives the needed material for the dam and increases the depth of the lake at the same time.

There should be enough soil used to dam and hold the water regardless of the concrete core-wall as the wall need not be designed to add any considerable strength to the dam, although it must be of sufficient strength to withstand the pressure in case of a washout or other emergency. The foundation for the

A delightful little man-made pond at the home of Mr. Joseph Kerrigan, Cynwyd, Pa. The original site is shown in the small left-hand picture taken in February and above is a view of the same spot three months after starting construction

core-wall is important and should go down to hard, firm ground; often the site can be selected so that it may be built on solid rock. When the soil is very porous a concrete apron or floor should extend some distance into the lake at the deepest part.

SELECTING the site is very important and your success may depend on it. In locating the lakes here illustrated the various conditions of the ground were considered. The natural contour of the ground, whenever possible, should decide the outline of the water surface; this means that the finished body of water should be in low ground, surrounded by banks which rise naturally from the water's edge. It is more difficult to make the outline look natural if it has been formed by excavation, although sometimes it is desirable to enlarge the lake by removing soil and when this is necessary the new banks may be greatly improved with suitable planting.

A lake at Fox Chase, near Philadelphia, on the property of Mr. Clarence Illingworth, covers almost three acres of ground and is supplied by a stream not three feet wide (pictured below). The dam is twelve feet high at the overflow and the core-wall is one hundred and fifty feet long. This core-wall is banked on both sides with soil, and is covered with an interesting growth of shrubs and trees which thrive naturally in moist soils along the banks of streams and ponds. The wall at the overflow is concealed by boulders imbedded in concrete so that the lake and waterfall show little indication of their artificial origin.

Under these and similar conditions a dam becomes an item of public interest. Faulty construction and unusual stress might cause it to collapse and damage property below it, and for this reason the State Bureau of Waterways has the authority to pass judgment on the plans of the proposed dam. Work of this character is subject to state inspection during construction as well as at intervals thereafter.

IN ADDITION to the beauty and recreational value of ponds and lakes there are several practical advantages which should not be forgotten. From the standpoint of real estate values they should be considered an investment rather than a luxury; a body of water on your property cannot help increasing the value of your holdings far in excess of the cost of the development and, if there is a need for it, the water going over the dam can be made to work for you.

I know of one small stream which is dammed in three places and turns three small, efficient water wheels. The first wheel generates enough electricity to light a medium-sized country place. The water then goes to a second wheel which pumps spring water for the house supply, and the third wheel pumps filtered water from the stream to a neighboring place a thousand feet away. These modern ball-bearing water wheels make very interesting things possible with a small amount of water, and there is almost no expense in operating them.

A concrete dam concealed by boulders set in concrete with planting which helps carry out the natural effect of this waterfall on the property of Mr. Clarence Illingworth at Fox Chase, Pa.

The Little Naturalistic Pool

by

Earl Brooks

THE expense of a water garden will of necessity vary according to the size. A half barrel buried in the ground with one Waterlily in it, a couple of goldfish and an Iris planted along its side will make a water garden and will cost about three dollars all told. My own covers about three hundred square feet of water surface (see accompanying pictures) and about a hundred feet of bog and cost approximately a hundred dollars. But it must be born in mind that the planting and rock work was all done by myself.

In laying out the shape of the pond avoid all straight lines or perfect circles as nature doesn't do it that way. If the pool is narrow and resembles a stream, the curvature of one bank should in a measure follow the curvature of the opposite side, and usually where there is a high bank on one side there is a low one on the other. The sides of the pool should slope at about 45° which gives a greater surface with the same quantity of water. Using this slope the concrete can be plastered directly to the sides while with the more vertical sides, forms are necessary to hold the concrete while setting.

Two views of Dr. Brooks' naturalistic water garden: above, the pool attractively planted, with open spaces between the clumps of Waterlilies to allow glimpses of the smooth surface and little bits of reflection. Left, the inlet where the water splashes its way into the pool

In gardens laid out along natural lines all concrete work that holds the water should be so concealed that it does not show in the finished work. The concrete should be made differently if the pool is not to be drained in winter, so as to keep it from freezing and cracking. The walls will of necessity have to be thicker and some protection given it as the pressure from frozen ground or water is almost irresistible. I find it to be more satisfactory to make the concrete about three or four inches thick, with one portion of cement and three parts of sharp sand and gravel. The freezing will crack this, but in the spring when the pond is cleaned out, a little pure cement mixed thin will quickly repair the crevices. When first constructed, water should be left standing in it for a couple of weeks which will dissolve most of the caustic from the cement, then drain off and refill the pond before fish and plant life are introduced.

The excavation ready for the concrete (above) and, at right, the Waterlily boxes all planted, ready to be submerged

ALL Waterlily ponds should have some fish in them not only for ornamental purposes but to keep them free from the larvae of mosquitoes. Otherwise the pond will be more of a nuisance than a pleasure. Goldfish are usually preferable owing to their hardiness and attractiveness. In the larger ponds the common variety is appropriate while for smaller pools the more elaborate Japanese styles of fan and fringed tailed goldfish are more attractive.

In a few weeks after the water is turned in the owner will have a disagreeable surprise for algae begin to grow and the water is likely to become unsightly and green, but as soon as the algae reach a certain stage and the water gets really warm they will collect in masses of thick scum and the water will be clear and clean again. This scum can be dipped off if desired. I started to do this one time and to my surprise found a frog appropriately seated on a large accumulation of this scum and under it I discovered the goldfish were feeding on the minute insect life harboring there, so I resigned the task and left the algae scum in its natural environment. Copper sulphate or blue vitriol dissolved in the water (about 1 part to 5000) when the scum is forming will kill it but it will also kill the fish and probably all other plant life in the pond, so it is better to wait for its natural elimination.

(Continued on page 414)

Beauty Doctors of the Gladiolus

Breeders Who Have Achieved Present-day Perfection

Forman T. McLean *and* William E. Clark

Photographs by the Rochester Camera Exchange

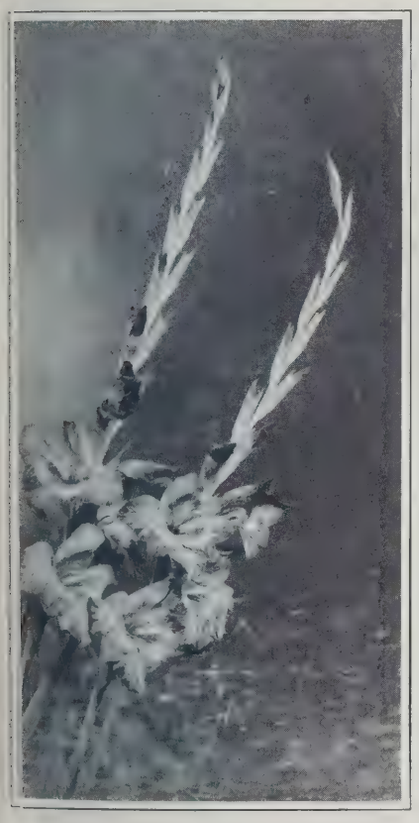
PART I. HYBRIDIZERS OF THE CONTINENT AND OF AUSTRALIA

A group of Lemoine varieties, showing some of the odd markings to be found among the French varieties (See page 398 for details)

WHAT is best among the Gladiolus of to-day? This is not easily answered. Tell me the best make of automobile, or radio set, and then I may tell you the best Gladiolus. In other words, is a matter of personal opinion. But there re a group of outstanding sorts, among which le may confidently look for our choicest kinds, nd a very good way to get acquainted with iem is through the work and aims of the eople who have developed them, the Gladio- s hybridizers.

This flower has proved most amenable in th hands of hybridizers; so much so that o en a breeder has set up in his mind an e tirely new standard of form or color, of v or or substance of flower, or of some o er combination of these or still other t its, and by careful inter-breeding and s ection of promising seedlings has suc- c ded within a few years in fully realizing h ambition to create a flower after his o n pattern. Thus Kunderd, who is now identified with so much that is best in the modern Gladiolus, started many years ago with the aim to produce a ruffled race. He has not only done this, but he has also advanced the Gladiolus in many other ways. Just as the name of Kunderd is associated with the ruffled Gladiolus, so several other breeders are identified with advancements along special lines, and are known as producers of one or two types of flower in particular. True, in pursuing one objective, one may rear many commendable seedlings, each representing painstaking effort and each quite too good to be lightly discarded, though they may differ widely from the desired ideal. So it happens that many breeders have put out odd assortments of new sorts, without any apparent plan. But the main aims of the Gladiolus breeders have strongly influenced the character of the modern varieties, as we shall see by considering a few of them, both of this and of other lands.

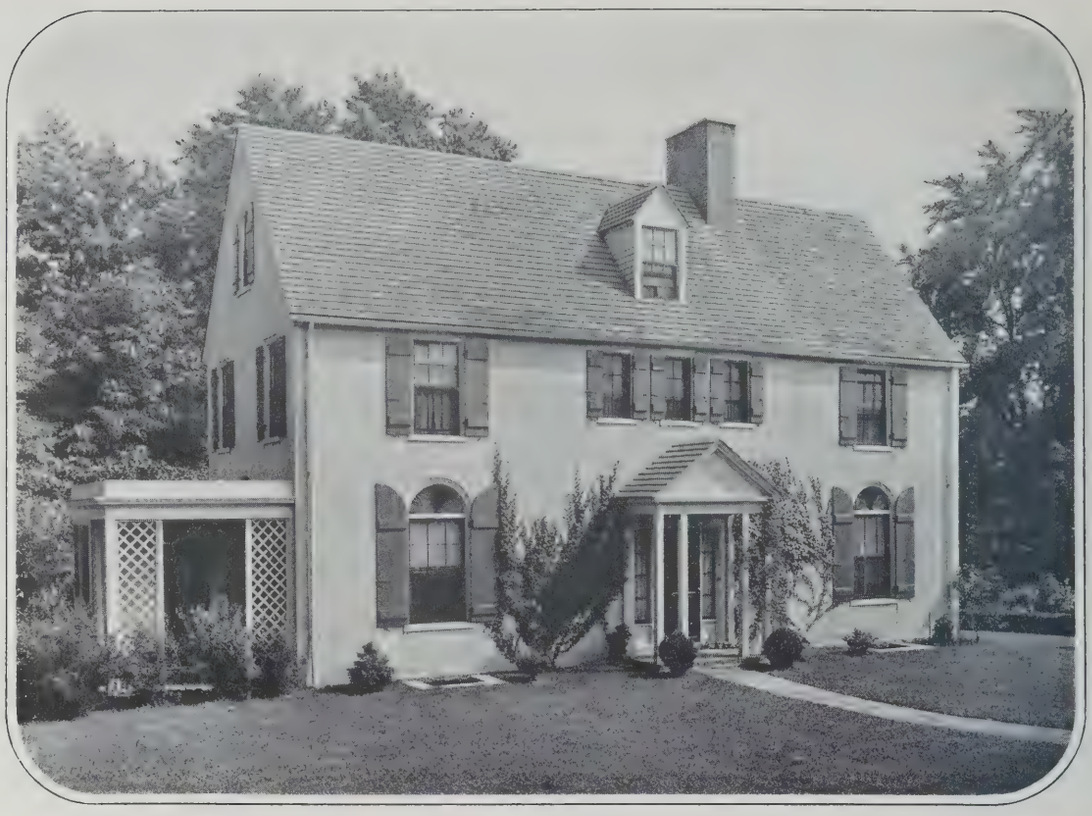
(*Continued on page 394*)



Charlemagne (Lemoine) is a huge bright pink sort, with the conspicuously spotted throat of Lemoine's Nanceanus varieties

Veilchenblau (Pfitzer), the best of the deep bluish violet colored Gladiolus

Frau Van Konijnenberg (Pfitzer) is a light bluish lavender, similar in color to Diener's Geraldine Farrar



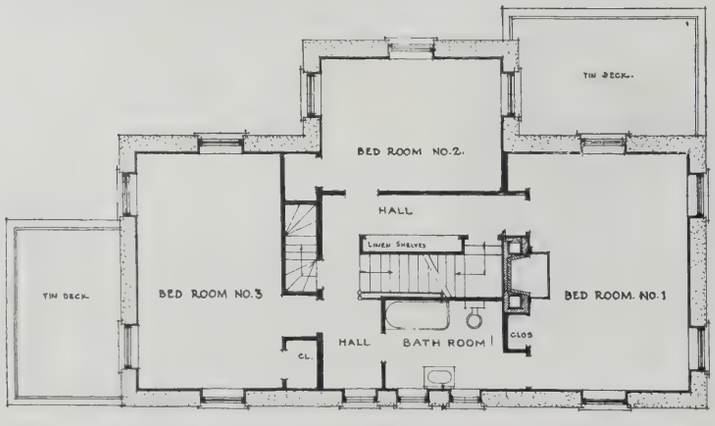
Home of Mrs. Albert F. M. Chandler

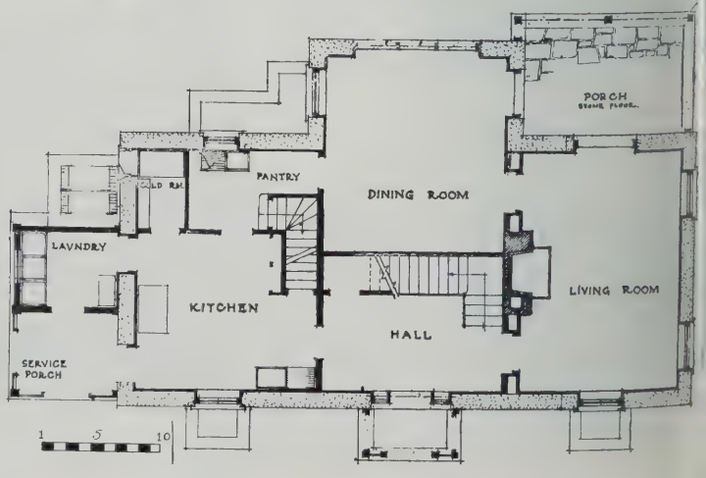
At Haverford, Pa.

Tilden & Register, Architects

Photographs by Mattie Edwards Hewitt

Very compact in plan and with such adroit handling of simple essentials as to completely avoid any suggestion of the box-like. The window arrangement, balanced yet not monotonous, with interesting variations of shape, is worth noticing; also the skilful placing of the chimney, its relation to the third-story window and entrance porch





A New House That Dates Back to Old Days

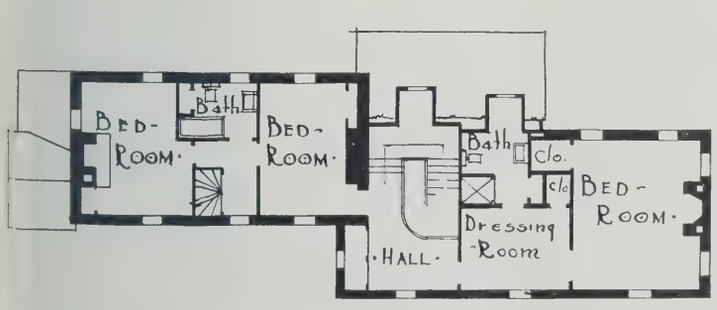
Home of Mr. Leslie H. Hall at Rydal, Pa.

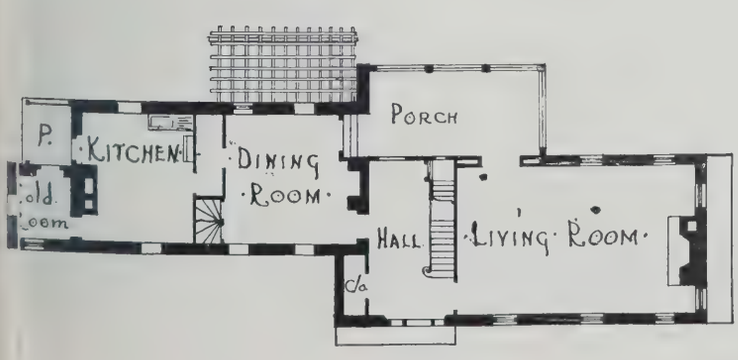
Remodelled by

Carl A. Ziegler

Photographs by Philip B. Wallace

Of the Revolutionary Period with 20 in. stone walls having the ledge rock facework, stucco covered, so characteristic of its region, it gave the architect a substantial start. A living-room wing, kitchen porch, and cold room were added (see above and at right) and the whole renovation was of course carried out so far as possible in keeping with the spirit of the original house (shown in photograph at bottom of this page)





Orpine showing leaves of shoots deformed by spring colonies of the melon aphid

Where the Melon Aphid Winters

The Garden Orpine Convicted of Giving Lodging to This Too-well Known Garden Pest

Edith M. Patch

Entomologist University of Maine

Distorted leaves of Shepherd's Purse grown near infested Orpine, due to work of aphids

NO GARDENER needs introduction to Live-forever or Orpine. As a child he has played with the thick leaves. As a gardener he has enjoyed the beauty of the rose-purple flowers, or quite possibly, has been annoyed by the weed that encroaches on the flower borders. But our present concern is with a newly discovered rôle of this plant as guardian of the eggs of that well-known pest, the melon aphid.

"Well-known" would seem an appropriate term to apply to an insect which has at least one hundred and fifty publications testifying to its economic unpopularity in the gardens of America, Asia, and Europe. Its depredations are, indeed, known the world over, since colonies of these insects are found on members of the Gourd family; and on members of the Mallow family (therefore also called the "cotton aphid"); and on a wide range of other vegetation including economic crops, and ornamental plants, as well as weeds. One point in the life of this wide-spread, common, and obnoxious insect has remained a mystery until a few months ago. No one knew where it hid its eggs.

The insect appears annually upon its accepted plants in the summer, establishing colonies on the cucurbits about the time they begin to run and on other plants in a tender and succulent stage. These colonies remain, producing generation after generation of viviparous females until such vegetation ceases to be attractive by reason of age, frost or other causes; but no eggs are deposited on these summer host plants to carry the species over the winter. On account of the hardiness of the melon aphid, some entomologists have thought that by shifting from one type of vegetation to another the colonies may persist from year to year without ever depositing eggs. But this supposition is untenable in the region of real winters except in so far as house plants and greenhouse plants may harbor fugitive colonies.

It was because of this vital link missing from the cycle of an insect of economic importance that the writer felt challenged to undertake a survey of such species as resemble the melon aphid closely enough to suggest possibility of identity. At last interest became focussed on a species of aphid that overwinters on the Orpine in the egg stage, and the spring colonies of which cause distortion of the Orpine leaves. This species has, among its wingless forms, several color varieties, whitish, yellow, pale green, olive green, blackish green—the same color varieties, indeed, for which the motley colonies of the melon aphid are famous.

IN SPITE of the resemblances, there were significant items of circumstantial evidence which made one question the likelihood that the orpine aphid and the melon aphid could be identical. The orpine aphid seemed to have an *alibi* because its colonies could be found all summer contented on Orpine whereas a well regulated migratory species should leave its primary host plant (that on which it over-winters in the egg stage) for the summer, returning to it again in the fall.

Infested Orpines were planted in the greenhouse in which Cucumbers, Melons, and Squashes had been grown from seed for the purpose of the experiment. Part of the aphids moved over from the Orpine to the cucurbits and there established typical colonies of the melon aphid and part remained on the Orpine. Members of the Mallow family were introduced and the aphids accepted these. Purslane, Sweet Clover, Begonia, Celery, Chickweed, Shepherd's-purse, and certain other plants known to be liked by the melon aphid were placed near infested Orpine, and colonies of the orpine aphids established themselves on them all. Repeated experimental evidence, in short, proved that the heretofore neglected orpine aphid is no other than the ill-famed melon aphid, technically known as Aphis gossypii.

The small shiny black objects on the pale central leaves of the Orpine are the eggs of the melon aphid (Aphis gossypii). The eggs of this insect have never before been recognized

Cucumber grown from seed and insect-free until placed near infested Orpine from which aphids moved over and colonized. Leaf at right shows the influence of their attack

Some Gardens of France

Secrets of Entry to Historic and Present-day Beauty Spots

Herbert W. Faulkner

WHEN you lay aside your tools, and forsake your beloved garden, to become a tourist in foreign lands, you are sure to hear strange gardens calling, and you will follow the lure of their voices, even though the fragrance of their flowers arouses in you a vague nostalgia, and a fond regret for the beds and borders you have left behind.

In France, fine gardens lie hidden all along one's itinerary, and the following hints will help the traveler to find and visit them. The larger number of gardens worth seeing are grouped about Paris, and are easily reached on short excursions from the capital. Another group is located upon the River Loire, near the town of Blois. Gardens forming a third group are scattered along the sunny shores of the Riviera.

If one wishes to study the gardens in their historical order, he should go first to Blois, and thence make excursions to Villandry, and to Chenonceaux, and see the gardens as they were planted in the fifteenth and sixteenth centuries, with their rectangular compartments, and flower-beds arranged in elaborate "broderie" patterns, edged with trimmed Box, their formal paths, and pleached alleys, as they are represented in illuminated borders of old missals.

EDITORS' NOTE—As many of the finest gardens may be visited only by special permit Mr. Faulkner's suggestions will considerably expedite travel and save the American visitor to European gardens much time and worry. Information on "Seeing the Italian Gardens" appeared in April (pages 164 and 165).

But in and about Paris will be found many gardens of the sort that we think of as the typical French garden, which came into existence in the seventeenth century, under Italian influence, and reached its most splendid development in the works designed by Le Notre. The list includes the gardens of the Tuilleries, the Luxembourg, Versailles, the Trianons, Saint Cloud, Chantilly, the vanished Marley, and Vaux-le-Vicomte. The last mentioned, though the farthest of all from Paris, is probably the example of garden design in the "grand style," the most readily comprehended and, on that account, the most worthy of a visit. At Vaux-le-Vicomte one discovers all the elements of great garden design, in the vast dimensions, the perfect balance, the unexpected vistas, and the discreet use of ornament, and one will appreciate the fine use of the encircling forests which produces a sense of privacy and furnishes an ideal background for flowers, sculpture, and decorative embellishments. One feels that Vaux possesses a personality at once gay, winsome and proud, and one does not wonder that it aroused the jealousy and

(Continued on page 392)

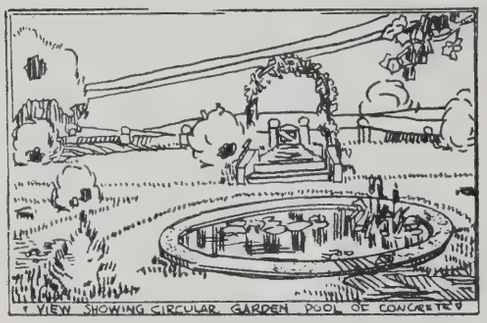
Garden of Monsieur Georges Truffaut at Versailles (described on page 392)

How to Make a Garden Pool

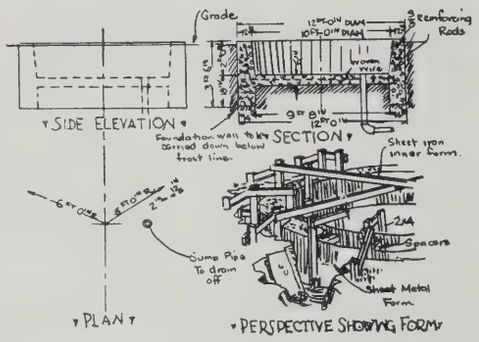
F. W. Ming

THE construction of a round pool as illustrated by the accompanying sketches is not a difficult task. The building of the forms requires perhaps more care and ingenuity than any other step, but even this is straightaway work consisting of driving several stakes and nailing a few braces. The perspective sketch illustrates how the form is set up. Two steel or sheet iron circular forms are spaced 12 inches apart by stakes driven in the ground on the inside and outside of the forms. The tops of the stakes are braced by cross pieces to prevent the forms from bulging out of shape. Long cross braces which extend the entire diameter of the pool are also added to keep the circle of the pool true. In order to give added strength to the outside stakes, short stakes are driven on the outside to which angular braces may be nailed.

The depth of the wall of the pool is 3 ft. 6 in. but the depth of the inside of the pool itself is only 2 ft. with a bottom 6 inches thick. The inside of the pool is tapered slightly and its surface should be formed of cement as soon as the steel form can be removed. The top of the pool should stand slightly above the level of the ground but it is important to extend the foundation wall below the frost line. A sump pipe is provided for drainage purposes.



VIEW SHOWING CIRCULAR GARDEN POOL OF CONCRETE



Steel reinforcing rods $\frac{3}{8}$ in. in diameter are required to add strength to concrete and these are spaced as shown in the sectional view. The forms which are bent as hoops are interlaced by bent U forms carried up to the top of the pool. At the bottom of the pool, a woven wire form is placed to cover the entire area. All steel forms are set in place before the concrete is poured. When this is done, exceptional care should be taken to tamp the material thoroughly. Use plenty of water and see that the mixture is loose.

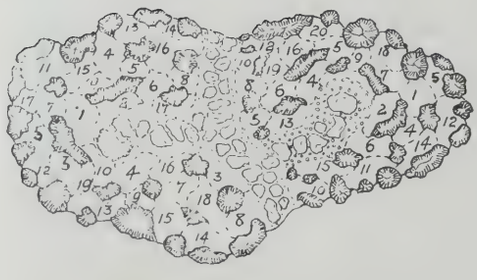
The forms should be allowed to remain in position for at least two days. Sprinkle water on the concrete several times to facilitate proper seasoning of the material. The inside form, however, may be removed as soon as the concrete has set so that the coat of cement may be applied while the concrete is still wet.

Two coats of cement and water should be applied when the pool has thoroughly dried. The following material is estimated for the construction of a pool with dimensions as specified in the sketches:

Cement	$9\frac{1}{2}$ bbls.
Sand	3 cu. yds.
Broken stone	5,62 cu. yds.
Woven wire	75 sq. yds.
$\frac{3}{8}$ in. dia. reinforcing rods	110 ft.

Plants for Pool and Rockery

F. C. Leible



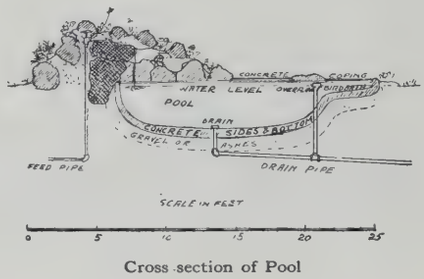
PLANTING FOR ROCKERY

On the accompanying plan rough rock is indicated by the darker spots, flat rock by the lighter ones, and plantings of Sagina subulata and dwarf Thyme by the scattered dots.

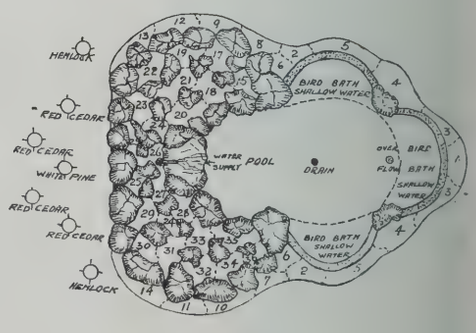
1 Cotoneaster horizontalis
2 Erica carnea
3 Azalea hinodegiri
4 Erica vulgaris
5 Daphne cneorum
6 Taxus baccata repandens
7 Pinus montana mugho
8 Juniperus squamata
9 Yucca filamentosa
10 Sedum stoloniferum
11 Sedum spectabile
12 Veronica rupestris
13 Sedum anglicum
14 Sedum acre
15 Plumbago larpentae
16 Phlox divaricata
17 Phlox arendsi
18 Iberis sempervirens
19 Opuntia
20 Alyssum saxatile compactum

PLANTING FOR POOL

1 Iris cristata blue
2 Iris cristata white
3 Iberis sempervirens
4 Papaver nudicaule
5 Plumbago larpentae
6 Astilbe japonica Queen Alexandra
7 Stokesia cyanea
8 Veronica spicata
9 Antennaria tomentosa
10 Chrysanthemum maximum (Shasta Daisy)
11 Gaillardia aristata grandiflora
12 Anthemis kelwayi
13 Aspidium acrostichoides
14 Dicksonia punctilobula
15 Sedum spectabile
16 Sempervivum tectorum
17 Helianthemum multiflorum
18 Nepeta mussini



Cross section of Pool



19 Heuchera sanguinea
20 Sedum stoloniferum
21 Phlox divaricata
22 Saxifraga ligulata
23 Asclepias tuberosa
24 Yucca filamentosa
25 Pachysandra terminalis
26 Saponaria ocymoides
27 Sedum atrosanguinea
28 Opuntia arenaria
29 Platycodon mariesi
30 Sedum spurium
31 Sempervivum arachnoideum
32 Tunica saxifraga
33 Sedum anglicum
34 Phlox subulata G. F. Wilson
35 Sedum maximowiczi
36 Sedum sieboldi

MOONLIGHT IN HAWAII

Supremely pictorial is the Coconut Palm (Cocos nucifera) of the tropics with its great feathery swirl of leafage thus silhouetted against the sky—an effect not achievable by any tree of the temperate zone

Preserving Wood Fences and Houses

Practical Measures Which Prevent Rot and Check Nature's Unwelcome Activity

Charles T. Gregory

IT IS well known that certain kinds of wood are more durable than others, but as would be expected these durable woods are also the more expensive. Red cedar, black locust, osage orange and mulberry are comparatively resistant to rots, but ash, red oak, white oak, maple and others will be badly rotted in five to ten years. It may seem too as if hard woods will withstand rotting more than the softer varieties but this is not always the case. For example, hickory, black walnut, and hard maple are all relatively short lived woods.

The rotting of wood occurs in a most peculiar manner. Did you ever notice how a fence post always rots off at or near the surface of the ground or a pile will decay a little above the surface of the water? A shingle on the roof will last for years whereas on the ground it will decay in a comparatively short time. Strangely enough, too, logs or timbers that are submerged in water will remain unchanged for a century or more; but set these same timbers in the ground and the chances are that in a few years they will be almost completely rotted. I know of a billboard at Attica, Indiana, whose supporting posts were taken from the Wabash River where they had been submerged for about 70 years. These timbers were in perfect condition when removed. Yet, two years after being set in the ground the rot had penetrated fully a half inch into the posts at the ground level.

As a matter of fact soil and water are not responsible for decay, but they do play a very important part in the drama—or shall we call it tragedy? The real causes of this rotting are members of a group of tiny little plants known as fungi.

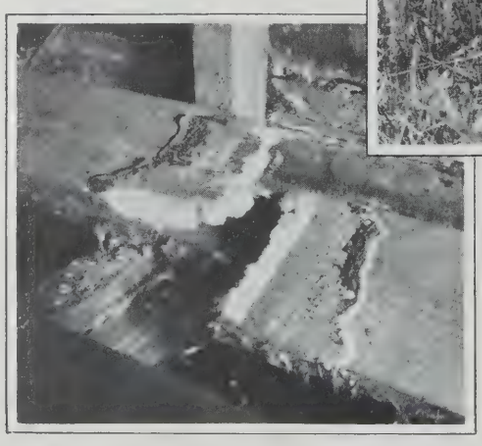
Fungi are completely devoid of the green coloring matter, and consequently are compelled to secure their food by living as parasites on other living things or as saprophytes on dead matter. These little fungous plants have a very important duty to perform in this world. Just imagine what a place the world would be if every tree and leaf that fell, never decayed, remaining unchanged year after year. Such a picture of chaos on the face of the earth will show what an exceedingly important part fungi play when they destroy such plant debris.

Like other plants, these fungi must have the proper combination of air and water for their growth. Experiments have shown that the proper ratio of air and water for most wood rotting fungi is about 60–40 either way, that is 60 per cent. of either of these ingredients and 40 per cent. of the other. Too much of either prevents growth and consequently prevents rotting. Hence a dry timber usually will not rot nor will one that is thoroughly saturated with water. This air and water ratio also explains why a fence post rots off at the ground level. The part above ground is ordinarily too dry, while the part deep in the ground is too nearly saturated with water. The fungus literally eats up the tissues of the wood causing the disintegration which we term rotting. Keep fungi away and wood will not rot.

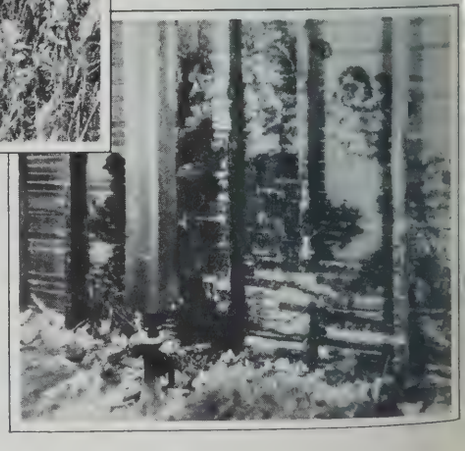
The man putting up a fence or building a house and who must use timbers in contact with the ground should use treated wood. There are several means of disinfecting timbers to prevent the growth of these rot fungi. One of the best of these disinfectants is creosote. Fence posts or timbers that are thoroughly impregnated with the preventive are fungus-proof and even the poorest wood when so treated will last as long as the most durable kinds. The most

(Continued on page 382)

Nature's way of house cleaning—without the fungus which is rotting this stump it would forever remain a blot on the landscape.



Dry rot always starts from the moist soil and timbers lying on or near the ground may open the way to serious losses. Creosoting would prevent such attacks of fungus (see left).



The lath and studding of a wall destroyed by the dry rot disease (at right.) It is sometimes about as cheap to build a new house as to try to repair one so injured by dry rot

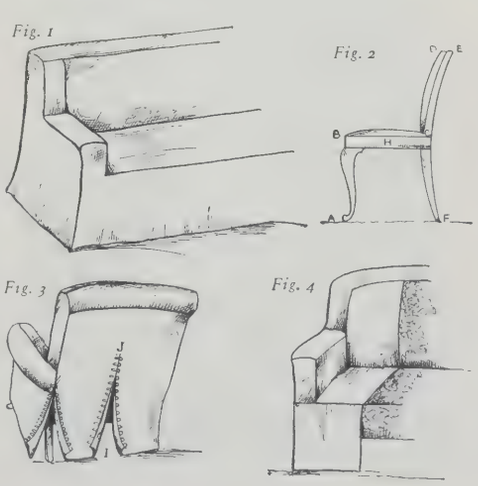
Slip covers of flowered cretonne give a summery note. Home of Mrs. Albert F. M. Chandler at Haverford, Pa.; Tilden & Register, Architects

When Chairs Put On Their Summer Clothes

by

Francis W. Henry

THE making of slip covers is a simple matter for any woman who can run a sewing machine or do plain sewing. When the extreme width of the chair or other piece is less than the width of the slip-cover material, it is an easy matter to estimate the amount of material required. Figure 2 shows a side view of a side-chair or chair without arms. Assuming that the chair is narrower than the width of the material, we will find the number of yards by running the tape line from A to B, B to C, C to D, D to E to F. Add to this length an inch for seams at each point. Now find the amount required for the two side pieces by running your tape line from floor at point half way between A and F to top of seat at H, and from front leg at A to rear leg at F. Double this latter measurement, and add it to the first and you will have the entire amount of material needed. Carefully pin the goods to the chair to prevent its drawing out of shape, smoothing out all fullness to the edges where the seams are to be made. When the edges are trimmed and pinned into place the cover should be removed and run up on the sewing machine.



If the material has a large floral or other design, it must be planned so that the pattern runs to the top. The side pieces must be cut separately and pinned in place. It will not be necessary to bind the edges with tape unless the worker desires to do so. When chairs have a back that is wider at the top than the bottom, the opening should be at the rear of chair from I to J, Fig. 3. For all other pieces the opening can be made at each rear leg as shown in Fig. 3. Here lacing or any other method of closing may be resorted to. Fig. 4 illustrates an arm chair with slip cover. Note how the top, side and front piece of arm are attached to the outer side piece, to the back and to the seat. Fig. 1 illustrates a davenport. The lines clearly show how the various pieces of the cover are fastened one to the other. There are many other pieces that differ in shape, but a careful study of the illustrations and the descriptive matter will enable anyone to do satisfactory work.

In this characteristically Colonial hall, modern rugs with their good design and Oriental coloring bring the traditional atmosphere of luxury and harmony

The Modern American Rug

Domestic Woven Products That Bring the Finest of Styles and Designs Within the Reach of All

Ellen D. Wangner

Photographs by courtesy of Mohawk Rug Co., W. & J. Sloane, M. J. Whittall Asso., James M. Shoemaker Co. Inc., Bigelow-Hartford Carpet Co., Clinton Carpet Co.

WHEN buying a rug, the average person is influenced by the three (to him) fundamental factors—beauty (and this means color and design), size, and price. Fortunate is he who also demands a reliable dealer or seeks for the products of some well-known manufacturer. As a rule, people do not realize that mere money value does not ensure long life to a rug any more than it does to a human being. The durability of a rug depends not only on the care that it receives but on its inherent quality as well, and quality means the amount and kind of wool used and the closeness of the weaving.

The first thing to demand, then, in a rug is quality, and this will be found to lead to beauty of texture and rare loveliness of color and design. The modern manufacturer finds it an easy matter to combine these in his rugs since he has all the centuries of rug weaving in the Orient to guide him, modern machinery and skill to aid him, undreamed-of facilities for securing the world's finest wool. Out of all this wealth of experience and material he can and is producing rugs of great beauty and durability, rugs so soft and silky, so pliable and rich in color that they deserve what is printed on the labels of one manufacturer—"Created in the image of the Oriental rug for those who appreciate fine craftmanship." These rugs, however, are not in any way mere copies or reproductions; they are original creations and modifications of the best-loved motifs that have come down to us through the ages and they are designed especially for the modern home.

Like a page from the Arabian Nights is this Kirman reproduction, a modern chenille rug of rich tone and texture.

The story of rug making is as old as history itself, a romantic story that comes from the Orient, through Egypt, takes us with the Crusaders back into Europe, sees Henry of

Navarre patronizing this new industry, bids us ponder the Edict of Nantes —that famous edict that scattered like seeds so many arts and trades, that sent the French and Flemish weavers fleeing to England for safety! Here many settled in the town of Wilton whence came the Wilton carpets while still other weavers at Axminster began to weave those known as Axminsters. In Scotland still another type was developed—Tapestry —and here was also invented that unique kind of carpet known as Chenille, a type growing more and more in popularity. From Belgium came the loom that gave us the Brussels carpets.

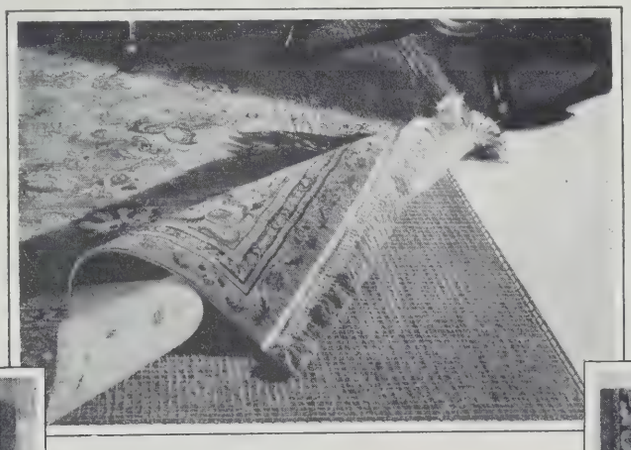
It would be difficult if not actually impossible to find a modern home without a rug of at least one of these makes. Equally difficult would it be to find one rug owner out of every ten thousand who can distinguish one rug or face weave from another, tell why one is better than another or what to do to ensure long life for a rug. Rugs and carpets are probably among the most familiar of all household articles, yet how many of us really know anything about them!

These modern rugs are so soft that many of them in their small sizes may be thrown over couches or divans where they drape as easily as Orientals and, since they have no sizing on their backs, they will not crack. These rugs let you sense the moment that your foot presses them such a depth and resiliency of pile as to make the words "domestic rug" take on a new meaning and you feel that here is a rug that you can depend on to give you good service.

Much of the restful charm of this hospitable room is due to its rug which supplies in its well blended tones the necessary note of color

THERE is much more to a rug, however, than this impression of value as one steps on it, and it is well to realize that you can never get more out of a rug than the manufacturer puts in it. There is the question of the quality of materials used in pile and backing. Is this wool or worsted? Wool is a short-fibered product whereas worsted is the long hair of especial kinds of sheep. Worsted, then, is always found in the very highest quality of rugs. The additional cost of a worsted rug may also be partly accounted for by the fact that it takes five times as long to spin worsted yarn as it does wool yarn. Most of the wool and worsted used for these rugs is foreign, coming from China, Iceland, Thibet, Argentina,—places where the animals live in extreme cold all the year 'round. This induces the growth of the fine wool necessary in a good rug. American grown wool does not have the necessary "spring" or resiliency of this foreign product; hence no American wool is used in any of these rugs.

Another proof of a good rug is the number of rows of weaving to the inch. The best Wiltons have thirteen and a half or more rows to the inch which means that the wool fibers have been so very closely pressed together that they make a heavy and not easily worn fabric. It is an easy matter to turn any rug over and count these rows of weaving. The more yarn that can be included in each square inch



Over a pad such as this a rug takes on a feeling of depth that conveys a fine sense of quality, and years of life are added by its use

"Created in the image of the Oriental rug for those who appreciate fine craftmanship" may truly be said of this Kashan reproduction

For the modern living room this Servian Rug fits well because of its dignity of design and its soft colors

Where the Chinese motif so definitely dominates, the modern Wilton is a fitting floor covering

the longer will a rug wear. Another factor in the life of a rug is the depth of the pile, for the deeper it is the longer will be the life of the rug. Some costly rugs have pile $1\frac{1}{2}$ inches deep; others have 1 inch pile and the depth ranges down to the average rug of $\frac{1}{4}$ inch pile. Quality of material [whether short-fibered wool or long-fibered worsted] closeness of weaving and depth of pile, then, are three important factors that should be sought in any rug, and these are hallmarks of quality that the veriest amateur can determine for himself.

THE next step is to understand the various types of rugs and by types is meant the way the rug is woven. The principal methods are these four—Wilton, Axminster, Tapestry, and Chenille. These mean not only a different weave but they call for a different quality in material and a great difference in the time that goes into the preparation of their designs, their yarns, and into the act of weaving.

In any rug there are three parts—the warp, running lengthwise, the weft, running crosswise, and the pile which may be attached to either. In addition to these there is a filler or stuffer which means threads inserted to increase the bulk or stiffen the structure of the rug. Wool (either the short-fibered product or the long-fibered yarn known as worsted) is *always* chosen for the pile, cotton or linen for the weft (in cheaper rugs jute is substituted) and cotton threads are usually used as fillers. The best grade of Chenille rugs use linen threads for the weft.

In looking at any rug, its structure can easily be seen. On the back, the number of threads to the inch can be counted. The depth of the pile is easily measured and by bending a portion of the rug tightly over face up, the warp and weft threads can be seen and their quality learned.

In looking at a Brussels rug, for instance (and this is of the Wilton weave only with its pile loops uncut), we learn that all good grades have nine or more loops to the inch. Anything below nine loops is a second grade rug while a third grade has only six or seven. The yarn for both Wilton and Brussels rugs is what is known as skein-dyed, a painstaking process. In tapestry rugs, on the other hand, the pattern is merely printed on the yarn in such a way that, in weaving, the desired colors come at given points. Sometimes tapestry rugs are woven in a neutral tone and the design is printed on the completed rug as is done on oilcloth or printed linoleum. Such a rug is usually made up of cotton warp, jute filler, and weft; if of a little better grade, the weft will be of linen. The rug called tapestry velvet is this same rug with the loops cut. The better grades of velvet rugs will have more loops or "shots" per inch than the tapestry, the best quality having nine to the inch. Most velvet rugs, however have only seven or eight and frequently only six.

The Axminster rug, sometimes called Moquette, is the product of highly developed looms that act exactly like fingers, giving to these rugs the character of hand-woven work. These little mechanical fingers, each holding a piece of yarn, dip down at the exact time and place, holding the ends of the yarn in position while a little shuttle works over and around it securely tying it in place. In some of the costly Axminsters, the pattern comes clear through to the back and the tufts of yarn look exactly as if tied by hand. Axminsters, unlike the more costly Wiltons, have all their wool in the face of the rug and hence are less expensive. The rows in an Axminster are easily counted from the back but the number of tufts of yarn are most easily reckoned from the face. The best quality of Axminster rugs have from 63 to 77 tufts of yarn per square inch.

The Wilton carpet or rug is woven on a loom that has a most interesting feature, the Jacquard attachment which is controlled by perforated cards stitched together so that it resembles the roll for a player piano. It acts like one, too, as the proper color is selected at the right time exactly as the right note is produced on the piano. In a good Wilton rug, six colors are usually used and as one color is brought into the design, the other five strands of worsted yarn are being woven in the body of the rug, awaiting their turn to come to the surface. Another good point about a Wilton rug is that two or three shots of weft are used to tie each row of yarn tufts into place.

The making of a Chenille rug is most interesting, due to the fact that the yarn is first woven into a pile of the desired thickness. This pile is stitched firmly through the center lengthwise. It is then put through a machine that steams it so that the yarn on both sides of the stitching stands erect. This yarn-fabric is then used exactly like yarn and woven into the warp. As fast as one row is woven, it is combed by hand into place so that along the entire row, the pile is upright. In a Chenille rug all the wool is thus woven into the face of the rug and none in the body. Because of the heaviness of this yarn-fabric, that is only caught at a small number of points in the rug, it necessarily follows that the body threads must be strong. In the best quality of Chenille rug, these threads are of linen, a fact easily discovered if one looks for it.

A Tapestry rug is the cheapest rug or carpet. It takes less time to weave and requires less material than other rugs. Every bit of wool used is in the pile and not one thread is in the body of this type of rug. Its pile has loops and it is therefore not what is called a cut-pile rug. Although the wool used in a Tapestry rug is of good quality, it is nevertheless very low-priced. Next above Tapestry in point of cost comes the Velvet rug and while this will wear no better than its cheaper sister, it is more expensive because it takes longer to dye its yarns and to do its weaving. A Velvet rug has cut pile. In the very highest priced Tapestry or Velvet rug, a little worsted yarn is often used. The next in quality is what is known as a "spool" Axminster, inex-

(Continued on page 408)

The modern rugs as Akbar Balbeck, Karnack types of Wilton embody motifs from China and Persia

Home of Dr. E. L. Prizer

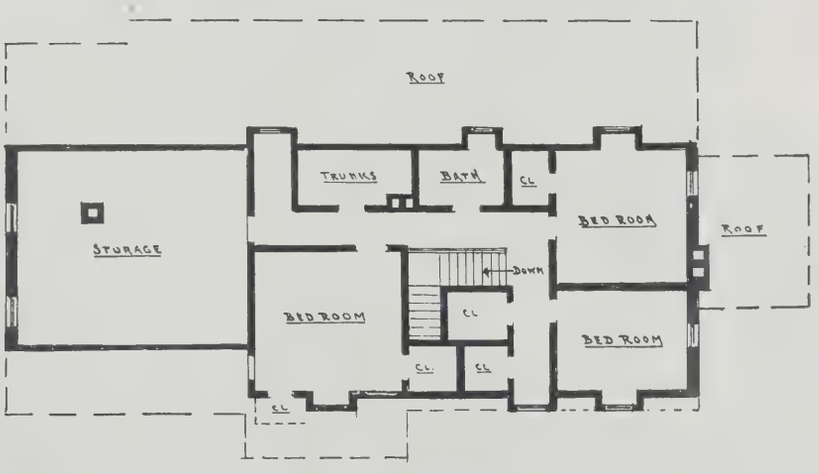
at

Southern Pines,

North Carolina

Designed by Alfred B. Yeomans

Photograph by Eddy's Studio



Expressive of fine tradition and yet designed to meet present-day standards of comfort is this Carolina home lying pleasantly low among the long-leaved Pines of its region. With provision for sleeping as well as living on the first floor (see plan at left) much of the family life can center here; and, in fact, in many parts of the country the tendency is increasingly toward the elimination of troublesome stairways

At the edge of a bluff nearly a hundred feet above the river, the dwelling nestles into sweeping contours of lawn, loosing its dominance because of the base planting and the fresco of wild Grapes

An Illinois Garden That Has Escaped the Yardstick

Home of Mr. and Mrs. G. J. Boehland, at Rockford

Photographs by A. G. Eldredge

Twelve years of ownership have wrought a surprising change in these old stone quarries and cow pastures, and much of the work has been done by the owner himself, whose pleasure it has been to make of the gardens and open spaces but an extension of the family hearth. At left, Hemerocallis, wild Larkspur and Ferns; and, above, one of the quarries, cleaned up and graded and planted with Ferns, Lichens, and Moss

A pleasant blending of aquatic and woodland flowers—Waterlilies, Arrowhead, Iris, Phlox, wild Grape, Goldenrod, with Forget-me-not and Moneywort along the edges of the pool. To the left are level lawns for several hundred yards, and the splendid Oaks shelter the cutting gardens and experimental plots

Old Clocks and Their Modern Descendants

Sarah M. Lockwood

Sketches by Ernest Stock, photographs by courtesy of the Chelsea, Sessions, New Haven, and Seth Thomas Clock Companies

EDITORS' NOTE:—There is something fascinating in the fact that many of the clocks we are using to-day have more than two hundred years of history behind them and that descendants of these fine old thoroughbreds are doing notable service on the mantels of twentieth century householders. The accompanying account is from Mrs. Lockwood's book on "Antiques," a veritable treasure-chest and most delightfully illustrated with line cuts of our Early American heritage which plays so great a part in the furnishings of present-day homes.

All the atmosphere of old New England seems to breathe from this well designed shelf clock that very fittingly is called The Copley

Although of modern make, this clock holds closely to the design of the old Terry clock shown on the opposite page, showing also a marked Chippendale influence in its broken pediment

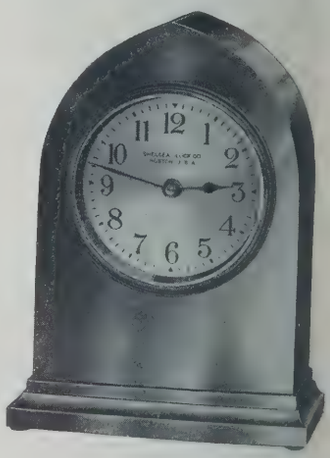
ALTHOUGH clocks had been made for centuries they were still a luxury at the time of the Colonies. The early settlers contented themselves with a glance at the sun which began and ended their day. The clocks they had were set upon a shelf against the wall and the long pendulum swung back and forth in a slit in the shelf. These were called "Wag-at-the-wall" clocks (see sketch on opposite page.) It was probably to protect the pendulum that the first tall clock cases were made.

Tall clocks came into use about 1700. The earliest American tall clock still in existence was made by Bagnell in Boston. It is in a pine case and inside the door is written: "This clock put up Jan. 10, 1722," so you see, Massachusetts had an early start in the clock business, and it was not long before a family came along that rooted it to the soil for ever. These were the Willards—a family of twelve, of whom at least five made clocks. . . . The greatest of these, Simon, was born in 1753 and he made clocks steadily all through the Revolution and up to 1848, when he died, leaving, besides all the clocks, eleven children. When you realize that all his brothers were doing equally magnificently, and their sons after them, it isn't surprising that you come across an occasional Willard clock. . . . . Simon, as was the custom of that time, used to peddle his clocks around the country in a wagon. Two or three times a year he would start out, going from village to village, selling his clocks to the local casemakers, which explains why there is such variety in the cases, some of them simple pine or maple or cherry, others in mahogany elaborately and beautifully carved. Of course, all of these clocks were Willard clocks.

In 1802 Simon Willard invented the charming Banjo clock which he patented and its success was so great that he practically gave up making tall

An authentic reproduction of the Early American shelf clocks used at the close of the Revolution

The pillar and scroll and the picture of Independence Hall in the lower panel of this clock stamp it as one of the most pleasing modern adaptations of the old Terry clock with marked Chippendale features

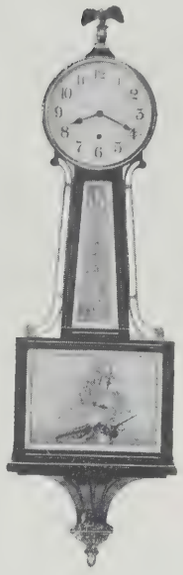


Of Gothic motif this clock is suitable for clubhouse or home

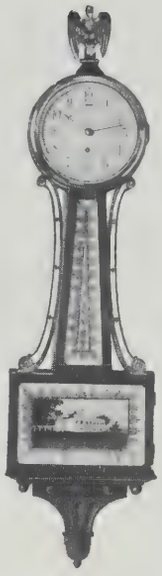
Of solid mahogany this Tambour clock has gold hands and numerals and the well-loved Westminster chime

With gold dial and eight-day movement this little mahogany clock is especially suited for use in boudoir or on my lady's desk

clocks except to special order. He also secured many commissions for tower and gallery clocks, and once while he was installing one in the United States Senate he met President Jefferson, who became his friend. He put clocks in the University of Virginia, and gave four to Harvard which he kept in order all his life.. . . He died in his ninety-fourth year, a fine old granddaddy of the Grandfather clock. I wonder if it was one of his that "stopped short, never to go again, when the old man died"? I do not believe so. It would not have pleased the proud old fellow. His clocks knew better than to stop.



The modern banjo clocks hold all the charm and quaintness of those old New England clocks which are the joy of all collectors and lovers of antiques



In the meanwhile Connecticut was getting all worked up about the clock business in Massachusetts, and in 1792, when Simon Willard was in his prime, a young man named Eli Terry began making clocks in Watertown, Connecticut.

This type of clock is the most desirable for mantel, cabinet or bracket or for the library table. With an eight-day movement they strike both the hour and half hour on resonant bell metal gongs

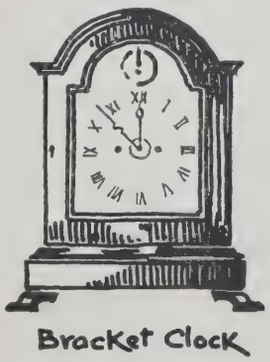
Terry was a great mechanical genius, and while his clocks may not be as fine as Willard's, he must be given credit for turning a journeyman's trade into a great industry. He, like Willard, made brass clock works, and ever so often he tied a dozen or more to his saddle and peddled them on horseback. This clock peddling was soon too slow for Terry. He took in two assistants, Seth Thomas and Silas Hoadley (who afterward made clocks of their own), introduced water power into his plant, and in 1807 took on a contract for four thousand clocks to be delivered in three years. People thought he was mad, but he did it, and from that time on his business was the biggest in the country. In 1814 he perfected a shelf clock that put the old tall case out of the running for ever.

The Terry is the popular pillar-and-scroll short-case clock. It has a rectangular mahogany case about twenty-one inches high, with small bracket feet, and the top cut in a graceful scroll. At the sides are delicate round pillars tapering at the top and ending in a turned cap. The wooden face is painted and so is the glass door (see below). These clocks were immensely popular. Thomas paid Terry one thousand dollars for the right to make them and they both put them out by the hundreds. These clocks are easy to find. Usually either Terry's or Thomas's printed instructions are still pasted in the back. Of course, the Terry clock is the more desirable.

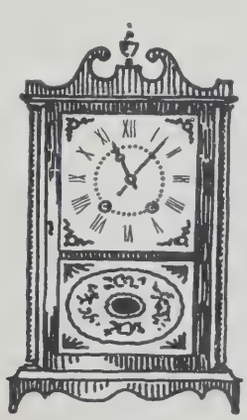
Thus Eli Terry set going the millions of Connecticut timepieces that to-day are keeping time all over the face of the earth. He was the first American manufacturer to make a fortune out of quantity production.

A word about wooden works. It is supposed by some of us that wooden works are older than metal ones, perhaps because they look so much more clumsy and crude. On the contrary, brass works are as old as or older than wooden ones, which were used only for convenience or for economy. Wooden clocks were always inferior because of the works being affected by the atmosphere, warping so that they jammed, and so on.

Ancestors of today's timepieces

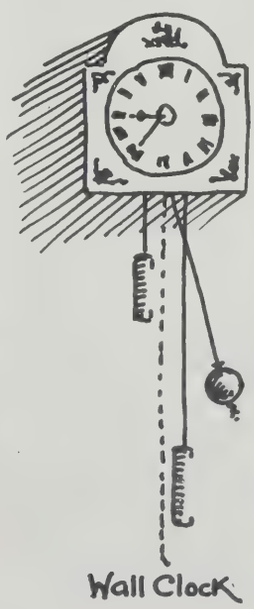


Bracket Clock



Terry Clock 1814

Banjo Clock



Wall Clock

Tall Clock 1722

AMONG OUR FRIENDLY NEIGHBORS

Readers' Open Column for Exchange of Comment and Experience

Get Snapshots as Your House Goes Up

TO THE EDITORS:

When a man builds a home, he knows pretty much what goes into it because he watches it grow, stick by stick, and he has pondered well the designs submitted before he started this one big task of his life. With all these facts indelibly impressed and fortified by the plans, it never occurs to the owner that he will ever be at a loss to know just how some detail of the house was constructed.

Five years ago a professor in engineering at the University of Michigan built himself a home. Naturally, a man trained in detail followed the work with more than usual watchfulness and he conceived a plan for supplementing all the architect's drawings and for bolstering the memory should either fail in future days. Before the lath was put on, he photographed every room.

Friends laughed at him for, when the new home was displayed to visitors, it proved to be one of the most complete small houses in all Ann Arbor. However, this engineer had learned the value of photography in the technical world and he felt certain that it would prove the same in the household.

Along toward the first year of occupancy, the professor's wife found the need for another service outlet in one of the rooms. Now, electricians are given blue prints for their installations but there is no one to stop them if they choose to run a conduit this way instead of that, so long as they bring the outlets where required. And the same is true of plumbers; the owner would be the first to plead with the architect for a change if the plumber should see a way to make a superior installation that merely consisted of running the pipes a different way.

But what about five years later when all structural and service details are covered by walls?

It is the uncertainty of these things which necessitates the fishing and mutilating that now takes place whenever we wish to make a change or addition. In this case, the photo of the room showed just where the electric conduit ran and it was connected up without any argument or guesswork.

And during the succeeding four years, many other connections have been tapped in, the photographs showing each time where and how the work could best be done. Once a heavy table lighting fixture was installed in the dining room; they knew without "sounding the walls" just where to find solid beams for supporting the load and just how they would have to fish for the nearest conduit for a connection.

At another time, a wash bowl was installed in a bedroom. The service plan for this room proved to be missing from the set—where or how near that room there was a city water pipe was an open question, but a view of the flooring in the adjoining room showed that the plumber had made a horizontal run between beams only about a foot away from this bedroom and that it would be very easy to make up the connections desired.

These examples are sufficient to show the usefulness of the plan, without going into the details of the others. One or two photographs of a room will provide a record of details of undoubted truth and in such a manner that they may be visualized instantly.—DONALD A. HAMPSON, *Middletown, N. Y.*

Roses in Western New York

TO THE EDITORS:

Since I decided to make a report on my experience with Roses I have read in the March number Mr. McFarland's article (page 43) on zoned Roses and as I appear to have most of those he names it may be that I am proven beforehand to be qualified for the undertaking. I am located considerably north of him, yet I am in the very narrow strip along Lake Erie that he allows to Hybrid-Teas. I think he is a trifle skimpy with us Western New Yorkers, for I am connected with a country garden fifty miles from Lake Erie and half as far from Lake Ontario, which is the best spot for raising Roses I ever saw. I might go inland to Ithaca with much the same result.

I am glad he places Ophelia at the top of the list, for it is my best and hardiest Hybrid-Tea in spite of its bad habit of opening wide early and fading badly. It has superb buds.

As a contrast, Francis Scott Key, which I think Mr. McFarland does not mention, is a favorite with me because of its fairly bright color and staying qualities, both as to shape of flower and hardiness of plant.

Next perhaps comes Los Angeles (not tried fully yet) for its wonderful color scheme and good growing qualities.

Hadley has done well, though it is a lanky, ill-shaped bush. The color is all its own, so nearly black.

Mme. Caroline Testout does well and keeps its color finely for a pink. It is for the lack of this that I do not like Jonkheer J. L. Mock, which fades early and is a trifle coarse as a flower and scraggy as a bush.

The Radiances are always good as flowers, but they have a way of disappearing early. Betty mildews badly, though it is not as ready to suffer from black spot as some others.

I still stick to Richmond, for its good behavior and persistence, especially in the country. White Killarney is tender, but the othersof that family do fairly well.

The fiery color of Gen. MacArthur commends it, but I am afraid it is an indifferent grower. Some striking flowers of Persian Yellow are noted (not regarded as a Hybrid-Tea), but it may be that it is something of a one-year rose.

Of course Gruss an Teplitz is in a sub-class of its own, growing higher than my head, and varying in individual plants as to blossoming. I am in doubt as to how much it ought to be pruned.

Columbia and Premier are confused in my mind and are not proven good. Premier suffers from black spot. Mrs. Aaron Ward remains pretty small.

Kaiserin Augusta Viktoria persists well under doubtful conditions. Its pure white blossoms are very charming.

Outside of the Hybrid-Teas Lady Hillingdon (Tea) is trying hard to rank with them and sturdy Frau Karl Druschki condescends to do the same. It mildews badly.

Paul's Scarlet Climber threatens to settle down as a fiery red Bush Rose and Dr. Van Fleet has not blossomed yet. Hugonis is a thicket of briers that do not blossom well. General Jacqueminot is too tender for me. All Ramblers suffered badly last season from leaf roller.—JOHN W. CHAMBERLIN, *Buffalo, N. Y.*

Oh! for the Flowers of Yesteryear!

TO THE EDITORS:

Can any kind Garden Neighbor tell me where I can procure the seed of old-fashioned Sweet-peas? I may as well confess at once that I infinitely prefer the old form of the flower—what florists call the grandiflora type—to the modern Spencer and orchid-flowered development!

Heterodox though I may be, I find the modern Sweet-pea, with its large clusters of blooms, its frilled petals and its aniline-dye

tints vulgar and ugly compared with the old flower "on tip-toe for a flight"—so airy, so dainty in its rose and white wings, or its two shades of purple, so fragrant and so immune from insects and disease! Until this year, I have been able to get from one or two florists the simple "grandiflora" varieties but no catalogue of 1926 that I have seen thus far lists them and I fear they have been lost to us forever; along with many other good and beautiful plants which have been "improved" (!) out of existence!

Certain beautiful old Roses I long for in vain. Where is a Climbing Rose as charming and elegant as the old Baltimore Belle? Where are the old Bon Siléne with its delicate tints of pink and cream, or the white Cornelia Cook or Niphetos, or the exquisite yellow Safrano? These have all given place to more brilliant colors and heavier substance and texture and the old favorites are no longer to be found. Was there ever a more delicious pink Rose than a perfect specimen of La France?

Certain charming Dahlias have vanished too, and the chief requisite now seems to be size and *fatness!* These huge heavy prize-takers have no more interest for me than huge Cabbages have.

Who remembers the beautiful sheen and color of Catherine Duer? Why has she vanished from the nurseryman's lists? Why is so beautiful a Gladiolus as Eugéne Scribe so seldom to be found to-day? Cannot we preserve that which is really good and if necessary start a society of amateurs for the purpose of preserving and rescuing the good things in the garden world which are fast becoming extinct? In a few years the Narcissus, one of the loveliest and most innocent flowers on this earth, a flower that may truly be called heavenly, will be unknown to American gardens—thanks to our government—or known only through a few very ordinary varieties; and a whole host of beautiful and exquisite bulbs besides will be forgotten by all but a few old people who look back regretfully to the good old days when such innocent pleasure as gardening was not hedged about by drastic inhibitions.

Let us hear from some other mournful gardeners and see if we cannot arrange for some sort of exchange—until our Government sees it to forbid us!—M. E. H., *Elizabethtown, N. Y.*

A Reaction from the Tropics

TO THE EDITORS:

During February, 1914, I was in Buenos Aires and on one never-to-be-forgotten evening I wandered in a "quinta" (garden) where I saw the sun set and the moon rise over the angled masses of almost tropical luxuriance heavy with the odor of Jasmine. In one corner of the garden, just outside the kitchen door, was an old well covered by a large arbor literally smothered in Grape vines. The house was a low, rambling brown frame covered with vines, with long glass doors opening from tiled floors to tiled terrace. In all my wanderings I've never seen anything quite like it, and even the word "Jasmine" brings all vividly before me.

From there I went to Montevideo where I saw a rose garden, row after row, bush after bush, and though it was virtually the off season, a marvelous wealth of bloom. But someway it did not impress me with a feeling of wondrous beauty, probably because it was so conventional.

Then came Rio de Janeiro, with glimpses of gardens back of walls; and then Madeira; and the flower covered terraces of Funchal; and then came Lisbon with all its quaintness and someway a feel of San Francisco in the air! From my window at the hotel I looked straight up the Avenida da Liberdade lined with trees covered with lovely pink blossoms, resembling our Crepe Myrtle. I was told that they were Laurels.

My next unusual floral treat was a garden just outside Paris. From the terrace of the house we could see the Eiffel Tower and much of the city. Below us was a combination of orchard and flower garden truly unique. Fruit trees with limbs spread and trained out flat on frames not over two feet above the ground; Peaches growing against a wall like Virginia Creeper.

After a childhood spent in a little California town where flowers ran riot, there came years of apartment life in New York, followed by much travel—but all the time no garden of my very own! Not so many years ago I came back to my home state and bought a garden. It was a lovely thing but never quite my own: I had done nothing to create it. Now, at "Hilltop" high above the town in the foothills of the Sierras I am making a garden all my very own!

We have cleared away Chaparral and Manzanita, rocks of all sizes, trees and tree stumps; we have burned and dug and raked and planted and repeated the operation until now we see the beginning of a lovely garden. We have just finished planting a number of Roses; one neighbor donated five Lilacs, another some Peonies, and another six lovely flowering Quince. We have put in lawns, beds of old-fashioned flowers, clumps of Iris, rows of Sweet-peas and soon I hope we will begin to plant Gladiolus.

Thus a dream born many miles away in a foreign land comes to a realization in California—long miles and days apart!—CAROLINE R. SIMON, *Placerville, Cal.*

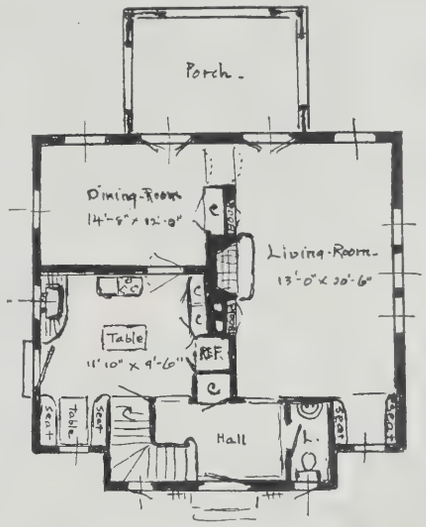
ITALIAN CYPRESS

A characteristic accent plant in the California garden is the Italian Cypress (Cypressus sempervirens) one of the most individual of columnar trees. Not hardy in the East. The garden of Paul G. Shippe, Fresno, Cal.

Adopting a Northern Plan to Living in the South

TO THE EDITORS:

I have worked out the accompanying changes to the first plan of the "Quartette of Six-Room Houses" (see page 332, January, 1926, GARDEN & HOME BUILDER)—and have made the changes suitable for building in the South—since I am mostly interested in Southern plans after living here fifteen years! I like the little plan so much, and with the suggested changes would like mighty well to build such a house for myself.



Suggested changes in the house plan appearing in *Garden & Home Builder* for January, 1926, page 332, to fit a home in Florida

To me the front looked too blank without windows downstairs (on front ell) and would be greatly improved by the addition of small casement windows on each side—the lattice however need not then be quite so wide. Also I would decidedly want a breakfast alcove (as I think most women do who build that kind of house) and I have turned the entry way into the breakfast alcove and made the entrance door near by—a larger entry way is unnecessary with an electric refrigerator in kitchen as I have planned and only gets terribly cluttered up and mussy.

As no cellar is needed (and after being here so long and building two houses and living in four, I would not have a cellar and furnace for anything!) I have used the space under stairway for a large kitchen closet, using the original closet for the electric refrigerator (electric range is also planned for this kitchen—though that would not affect the plan).

I have taken a foot off dining room and added it to kitchen which would suit me better, and I would build an archway between living and dining rooms instead of the door. And for upstairs I prefer a sleeping porch instead of "deck" over lower porch, with full glass door or French windows opening from rooms.—MRS. H. C. JEROME, *Orlando, Florida.*

Some Rare Cannas

TO THE EDITORS:

Without much fear of contradiction, I may say that in my opinion Mrs. Pierre Du Pont is the finest, most perfect Canna ever originated. It is the late A. Wintzer's masterpiece and is a living monument to his fame and memory. The color is almost indescribable—a true shade of real pink. The monster heads of bloom are composed of large ruffled edged blooms even longer than Wintzer's Colossal, each individual bloom crinkled like the finest ruffled Gladiolus. The heads grow from 16 to 24 inches in diameter. The bloom stems are strong enough to carry upright those monster clusters and develop 3 to 4 bloom heads to each stem. Remove each head as it fades, carefully cutting close up to the faded blooms in order not to injure the new heads forming on the stem below. The foliage is ideal—thick and leathery, and a healthy shade of deep green with large well-rounded leaves in abundance. Here in Georgia it grows from 4 to 5 feet and blooms well. It is perfectly healthy and a rapid multiplier; stands the hot summer sun of our Southland well, the only requirements being deep rich soil and plenty of water. While Mrs. Pierre DuPont found ready sale at $10 for a single plant when first introduced, it can be had for half that price now. Were I without it even this first price would be cheap!

Palm Beach is a close second, having ideal foliage much like DuPont. The broad long-petaled flowers are maize yellow and a blush-pearly-pink, rivalling the daintiest Orchid. The throat and lower petals are soft buff shaded with apricot. The entire flower is a perfect blending of soft shades hard to describe. The cluster grows from 15 to 20 inches in diameter, with 3 to 4 clusters to each stem. The blooms hold for days even in the hottest weather.

Apricot is another rare and beautiful Canna. I can best describe it as a glowing buff-yellow, cream base shaded with salmon-pink, the effect of the whole being a rich shade of true apricot. The bloom petals are very broad and round, forming a wide-open flat, round bloom unlike any other. They are set loosely on stems and make an unusual shaped cluster. The foliage is deep green, veined with lighter green. Height 4½ ft. When well grown will stand rain storms and broiling sun alike with no show of fading or drooping.

There is no danger of any of the Cannas discussed in this article sun fading if they are not starved for either food (old well-rotted manure or bonemeal) or water. After the bloom buds begin to form, water twice daily; or, better, let the hose run in small stream on them all night. I plant my Cannas in clumps or beds, each color to itself in a sunny location, and border with any suitable color of low growing plants.—VIRGINIA MOORE, *Winder, Georgia.*

Among the gay flowers which thrive in the North Ferrisburg, Vt. garden of Miss Bertha Lewis are Canterbury-bell, Delphinium, Foxglove, Lupin, Columbine, Sweet-william, hardy Pinks, and many rock Sedums

Larkspur from Seed

TO THE EDITORS:

I had gathered from more experienced gardeners that Delphinium could never, or seldom, be raised successfully from seed by the amateur; one must buy established roots at least two years old, they said. But in my mind's eye I saw clouds and clouds of this lovely blue flower in my perennial border, and that meant clouds and clouds of dollar bills floating away after them, so I determined to try my luck at home. I took seeds from a healthy plant, variety unknown to me, with large fine flowers a trifle deeper in tone than Belladonna, and sowed them in the same sandy mixture one uses for most seeds. This was in the early fall, in an unheated glasshouse. They came up very vigorously and I think every plant survived the first transplanting. As this was as soon as the first pair of leaves had formed, I set them rather close together. But in a short time they had grown such large roots that when out of the ground each one looked like a young octopus with a small green topknot. So I set them this time six inches apart and left them alone for some time. The frequent transplanting that agrees with seedlings that can be lifted easily out of the soil seemed a mistake for these plants, their roots were so firmly set. The weather was growing cold by now, and after the coldest nights the plants would appear rather frost-bitten, but revived by noon, and during this time showed no other ill effect except a lack of growth. To sweeten the soil during periods of dampness and no sunshine I raked in a little lime with a fork. By early spring I had about two hundred stocky, strong-looking plants. It was still too early to put them outdoors, but they needed more room, so I thinned them out by moving alternate plants, the ones that were left undisturbed making the best growth. In early May I set them out in the border, not expecting any blossoms until the next year; but in June and July every plant produced at least one flower, showing a great variation in color from pale blue to dark, with centers of white, gray, or black, some with petals flecked with lavender and others clear blue. This would not do for any one who wanted only certain true types, but the experiment was very successful for one who wanted masses of bloom and did not consider the variations from type any disadvantage. This was in Portland, Oregon, where the winters are comparatively mild, but in the East or Middle West the same method could be followed, only commencing in the early spring when each stage of development would be more rapid and the plants would still be ready to set out at the right time. In this case, however, they would not blossom until the following summer.—HELEN EASTHAM, *Portland, Oregon.*

Scabiosa Caucasica

TO THE EDITORS:

In a back number of this year's GARDEN & HOME BUILDER Mr. Julian Hinckley asks if anyone knows anything about Scabiosa caucasica. This is one of my favorite blue flowers and I grow it in quantity yet never have enough of it. In my locality, not by any means frostless, Scabiosa caucasica is as hardy in the open as anything planted. The plants grow luxuriantly in rich soil and I find that it is well to divide them every three years. Unlike the annual Scabiosa (which truly is rampant) the perennial class is not inclined to re-sow, more's the pity. So caucasica is not a sheet of bloom ever, but practically never is it without bloom which defies the coldest month. The perennial form is entirely superior to the annual as to form, leaf, color and size of bloom.—A. E. S.

"June—The Fairy Month, the Laughter of the Year"

Photographs by Mattie Edwards Hewitt, and Harry G. Healy

The garden terrace of Mrs. B. Franklin Pepper at Chestnut Hill, Pa.

A corner in the garden of Mrs. J. Willis Martin, Chestnut Hill, Pa.

Children's Maypole dance at Hotel Maryland, Pasadena, Cal.

Harold A. Parker, Photo

The home of Mr. F. Lawrence Goodwin, Baltimore, Md.

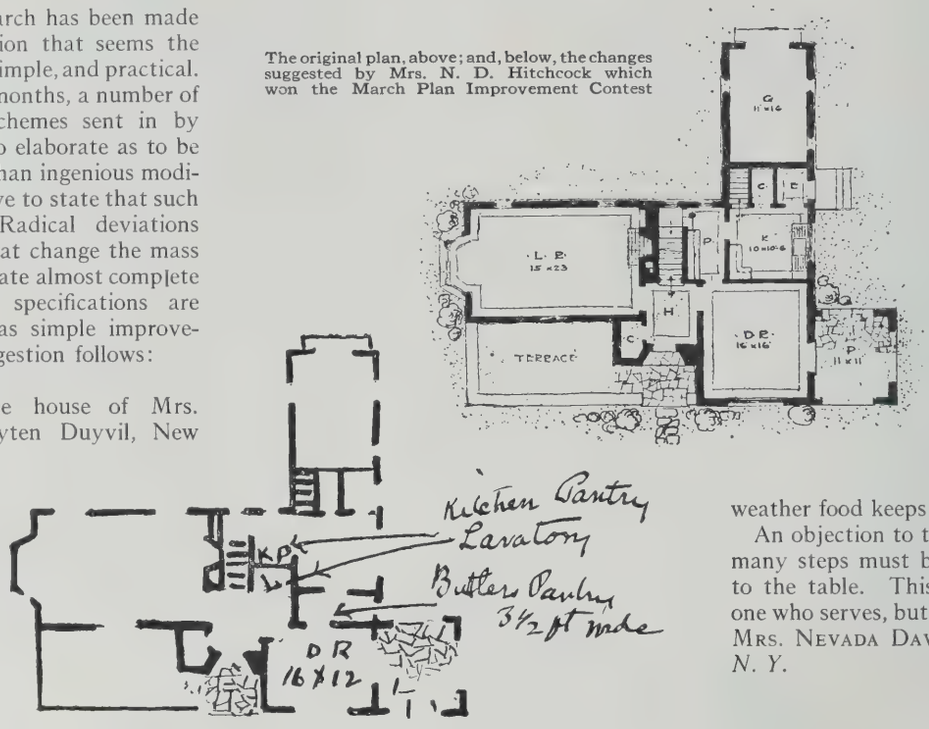
The Latest Plan Improvement

Putting the Pantry in a More Convenient Place is the Practical Prize Winning Suggestion for March by Mrs. Nevada D. Hitchcock of New York City

THE award for March has been made to the modification that seems the most ingenious, simple, and practical. As in preceding months, a number of reconstruction schemes sent in by various contestants were so elaborate as to be in fact *new* plans rather than ingenious modifications, and again we have to state that such cannot be considered. Radical deviations from the original plans that change the mass of the building, or necessitate almost complete reconstruction and new specifications are hardly to be considered as simple improvements. The winning suggestion follows:

IN CONSIDERING the house of Mrs. Mary McKelvey Spuyten Duyvil, New York, (March, page 39), it seems that the way to the dining room from the kitchen might be made much shorter by putting a butler's pantry between the dining room and the kitchen. A lavatory could be built in a part of the space occupied by the original pantry, and the rest of that pantry could be used either as a kitchen pantry or a breakfast nook. A separate kitchen pantry with a window to give ventilation is very desirable. One can do many things in a pantry of that kind which should not be done in a heated room, as, for instance, making salads, and delicate deserts. In cold weather food keeps well in a cool pantry.

The original plan, above; and, below, the changes suggested by Mrs. N. D. Hitchcock which won the March Plan Improvement Contest



An objection to the original plan is that too many steps must be taken to carry the food to the table. This is not only hard on the one who serves, but it also cools off the food.—MRS. NEVADA DAVIS HITCHCOCK, *New York, N. Y.*

Three Prizes You May Win

A $100 Dividend in Contentment

(Entries close August 1st)

FROM time to time during recent months we have been publishing, under the general title of "Dividends in Contentment," little stories of people who have gone back to the land, people who have rediscovered "earth's undersong of comfort." It is a theme very near to many hearts to-day—this second coming of the land into her own, her reassertion of the vital part she plays in human lives and destiny. Through the whirring of much machinery we begin again to hear the still small voice.

For the sake of readers similarly seeking inspiration and direction and because we believe that "the swifter the pace, the sharper the tension of modern life, the more surely will the country—with all it has to give—come again into its own," we want to hear further from folk who have dared, and breasted, and bested the great adventure of living on the land.

For the most stimulating, authentic story of this kind which reaches us by August 1, 1926, a "dividend" of One Hundred Dollars ($100) will be awarded. Manuscripts, other than the prize-winning one, deemed suitable for publication may be purchased at regular rates. Articles not to exceed 3,000 words nor be less than 1,200 and to be accompanied by pictures of the homestead or farm, its garden, orchard, cattle, chickens, or whatever the special feature which affords success. (Authors desiring manuscripts returned must so request when sending in and enclose postage for that purpose.) Address Dividends in Contentment Competition, % The Editors, GARDEN & HOME BUILDER, Doubleday Page & Co., Garden City, N.Y.

For Garden Photographs $50

(Entries close October 1st)

TWO prizes of $50 each are offered to Garden Clubs for the most attractive and interesting photograph (or photographs) of a garden made this year. Contest closes October 1st, 1926, by which date all photographs with explanatory details showing how the garden was made must reach the Editors. A club may submit one or more photographs of any garden in its district. The photographs must be suitable for reproduction and should have about a thousand words of explanation as to how the garden was worked, what it accomplished, and some account of the most interesting features. We reserve the privilege of purchasing at regular rates any material submitted. Unsuccessful entries will be returned only when requested and stamps are enclosed for postage. Address: Photo Contest, % The Editors, GARDEN & HOME BUILDER, Doubleday Page & Co., Garden City, N. Y.

Each Month $25 for a Simple Practical Improvement

(Contest for this month closes July 1st)

WHAT is your practical suggestion, with sketch plan, of a simple modification for bettering any plan of either house or garden, or both, appearing in this issue? [This refers to editorial pages only, any plans appearing on advertising pages not included.] Each month GARDEN & HOME BUILDER offers a $25 prize for the most striking, practical suggestion for the *simple* improvement of any of the plans in the current issue. (Elaborate reconstruction will not be considered). This applies to any plan printed for the first time in this month's editorial pages, and replies must reach us by July 1st.

It may be that you can see an improvement by stealing space for a closet, or adding an extra bathroom; the approach to the garden can very often be made more practical, more fitting; or perhaps it is the garden itself that can be bettered. These are but suggestions by way of example. Unsuccessful entries cannot be returned, and the right to use (at regular space rates) any suggestion submitted in the contest is reserved. Address entries to: Monthly Improvement Contest, % The Editors, GARDEN & HOME BUILDER, Doubleday Page & Co., Garden City, N. Y.

From the Royal Pleasure Gardens of the Eighteenth Century

...is hand-blocked English Print derives its picturesque, colorful charm

A FÊTE in the famous Ranelagh gardens where George IV was wont to take his pleasure, attended by his court and by the wit and beauty of the brilliant, romantic period—provides the theme of this charming English print.

Picturesquely attired in the costumes of earlier days, these lords and ladies and beaux and belles stroll about laughing gay at some daring sally, indulging in harmless gallantries and enjoying the sylvan beauty of these famous gardens.

* * *

EARLY in the seventeenth century, hand-blocked English linens were first introduced and immediately were accorded high favor for the upholstering of fine furniture, for draperies and for hangings.

In the latter part of the 18th Century, there was a revival of this fashion, due to the advent of weaving machinery and the gradual disappearance of "all-over" embroidery for hangings and upholstery. Further, under the romantic influence of the period picturesque little scenes from the East or from the earlier centuries appeared not only in the textiles, but even in the wall papers.

Today, hand-blocked English prints are again in high favor, since they lend themselves so admirably to so many types of furnishings.

Moreover, they are extremely effective for wall coverings, particularly with the interesting lacquer treatment.

Schumacher English prints, as well as their distinguished variety of chintzes, brocades, damasks and velvets, may be seen by arrangement with your decorator or upholsterer or the decorating service of your department store.

"Your Home and the Interior Decorator"

THERE is so definitely a *right* way to use drapery and upholstery fabrics with your own furnishings, yet it is something that only expert judgment can really know. How you may, without additional expense, have the professional services of an interior decorator for your home is explained in the booklet we have prepared, "Your Home and the Interior Decorator."

This beautifully illustrated booklet will be sent to you without charge upon request. Write to F. Schumacher & Co., Dept. D-6, 60 West 40th Street, New York, Importers, Manufacturers and Distributors to the trade only, of Decorative Drapery and Upholstery Fabrics. Offices also in Boston, Chicago, Philadelphia, Los Angeles and Paris.

Typical of the lovely furniture of the Queen Anne period, this wing chair shows how effectively this English print may be used for upholstery

Redolent of the gay, romantic, brilliant days of the late 18th Century, this English print is one of the most interesting of the new Schumacher fabrics

F. SCHUMACHER & CO.

Gardening for the Beginner

The Month's Reminder—June

As to Time and Place: In gardening practice a date can only be approximated as seasons vary and local conditions will have some influence. Generally the latitude of forty degrees at sea level and a normal season is taken as standard. Roughly, the season advances or recedes fifteen miles a day, thus Albany would be about ten days later than New York (which is latitude 42). The latitude of Philadelphia is a week earlier. Also allow four days for each degree of latitude, for each five degrees of longitude, and for each four hundred feet of altitude. Latitude 40 passes through Philadelphia, Pa.; Columbus, Ohio; Richmond, Indiana; Quincy, Ill.; Denver, Col.

How to Use This Guide: Suggestions as to the most important things of the month are given in this department so as to "remind" the gardener of the current duties. For routine details of such things reference should be made to standard handbooks and guides. It is impossible to make a complete manual of practice in each number of a periodical magazine. Yet timely articles will be found elsewhere in each issue, and references to back numbers will often solve the immediate question. Moreover, the editorial staff stands ready to help any reader with personal advice by mail. A self-addressed stamped envelope should be enclosed with the question.

Who Writes This: The advice and instruction in this department are the gleanings of many years' experience in practical gardening matters by competent amateurs and others who have "been through the mill." The contributions are made from various sections of the country: for example, Mr. Jesse A. Currey contributes from Oregon; Mr. Theiss from Pennsylvania; Mr. Henry Gibson from Pennsylvania (formerly from New York); Mr. Sherman Duffy from Illinois; Mr. P. T. Barnes, out of a world-traveled experience; Mr. A. Kruhm, from an extensive Eastern acquaintance; Miss Ethel Hutson from the far South; Mrs. E. Urquhart from California and, in addition, occasional notes from elsewhere and by the editorial staff and associated contributors of experience.

JUST because a lot of seeds have been planted in the vegetable garden, don't think for a minute that there is nothing more to do. First, the ground must be kept cultivated—maintain a dust mulch to conserve soil moisture. Second, there is still more planting to be done. To insure a constant supply of brittle, tender Beans all summer make small plantings every ten days or two weeks. The yellow podded varieties are less likely to rust during the hot summer months than early spring plantings.

As boys on the farm, we made one planting of Beet seed do for the year, but when Beets get big and woody they lose their sweetness, and seed sown in early June will produce young, tender, sweet roots in August or earlier.

Carrots, like Beets, are better when young and tender. So also make sowing of these now.

The best Cauliflower heads during the cool fall days. Seed sown now is in plenty of time. Now, too, is the time to sow the seed for the winter crop of Cabbage, setting the plants on ground occupied by early Potatoes. Two to three plantings of Sweet Corn should also be made. Take your choice as to varieties, but you will never regret planting Golden Bantam.

There are lots of other vegetables that may be planted now. Hot weather Spinach, like Victoria and Long Season, or some of the newer hot weather sorts. Radishes at ten day intervals to insure a succession. Leeks for fall and winter use. Kohlrabi—it does not take long for them to get 2½ inches in diameter—that is big enough, and Brussells-sprouts—a well regulated garden has all these.

HEAD LETTUCE IN HOT WEATHER.—It is not much of a trick up in New England to produce good Head Lettuce all summer, but farther south where the weather is warmer, most folks resort to the Loose-leaf varieties during midsummer. Lettuce is a cool-loving plant. Pennsylvania and New Jersey summers are not cool, but much can be done to mitigate the heat. Select a place where trees will cast a light shade during midday. Then mix with the earth very copious amounts of decayed vegetable matter, like old compost, leaf mould, spent hotbed manure, or similar material, that will produce a cool, moisture holding soil which will yield big crisp heads of the best heading varieties. I have seen it done by amateur, as well as professional, gardeners. A little extra work, yes! But who cares for that when one can demonstrate to one's neighbors that it can be done? Try some Iceberg that way this summer.

JUICY SEPTEMBER MELONS.—Melons shipped in are good substitutes maybe, but why not grow them yourself, for, like fruits, if they can stay on the plants until ripe, they are infinitely better. Never mind the past failures; try again. Get some Honey Ball, Netted Gem, Rocky Ford, Emerald Gem, or similar varieties.

Before planting soak Melon or Cucumber seeds for five minutes in a 1 to 1000 solution of mercury bichloride. It will prevent trouble from some disease. Then, of course, the striped cucumber beetle must be kept off by poison sprays or dusts or by covering with mosquito netting. The sudden wilting and dying of the plants can be avoided by dusting and spraying. Aphids play a large part in this trouble. Examine the underside of the leaves frequently in midsummer for aphids. As soon as a few are noticed dust with a good blow gun, using a tobacco dust, one made of tobacco extract and lime which is so strong that when the can is opened the smell is extremely obnoxious. If it does not have a strong smell it has lost its virtue. With a dust gun the undersides of the leaves are easily reached. One application should save the crop. Two may be necessary. Once the aphids are seen, act quickly, for in a few days they will have increased to such numbers as to kill the plants. [See Dr. E. M. Patch's article elsewhere in this issue on the newly discovered winter hiding place of the melon aphid.]

ROSE PLANT BARGAINS NOT PROFITABLE.—Rose plants bought from a near-by nurseryman, or a Rose specialist, set just as soon as the ground could be worked in rich, well drained soil are now well filled with a crop of buds. The same attention given to department store or five and ten cent store bargain Roses usually results in a much smaller percentage of success and much disappointment. Why take the chance?

Grow more Hybrid-Perpetual Roses. They produce armfuls of blooms in June, are hardier and more easily grown than the Hybrid-Teas. Their shortcoming is that after their extravagant June bloom, few flowers are produced the balance of the season.

This year's catalogue of one Rose specialist tells the inexperienced grower which of the Hybrid-Teas can be grown with a reasonable assurance of success. It frankly tells the good and bad traits of many of these beautiful but finicky varieties. Study a good catalogue and also visit public or private Rose gardens, and make your choice of varieties with which to experiment. Figure to set the plants next fall.

WINDOW AND PORCH BOXES.—Get the window and porch box habit! It is one of the most attractive habits there is. Many hotels, office buildings, and sometimes public buildings have acquired this decidedly pleasing custom. It dresses up a building, gives the appearance of being occupied by real people, people worth knowing. The boxes do not cost much, and outside of watering every day or so, when it does not rain, there is little work. The most attractive boxes are those which have trailers hanging down, like German-Ivy, the best and easiest grown green, while the variegated Vinca minor, green leaves and yellow variegations, is equally good; Kenilworth Ivy with its attractive little flowers is good. Unusual, but very attractive are the long stems of the Cobæa with its unique purplish flowers. Morning-glorys, Moon-flowers, and Thunbergia are flowering vines that have all been effectively used. As fillers for the center: Geraniums are excellent, and there are Petunias, Nasturtiums, Heliotrope, Ageratum, Lantana, Verbena, or Ferns.

SUMMER CARE OF BULBS.—When the late, or May-flowering Tulips are through blooming and the bulbs are beginning to ripen, which is indicated by the withering of the leaves, carefully dig them up, lay them close together on the ground in a sunny situation, and cover with an inch or so of earth or sand. In this condition the bulbs will ripen in about two weeks, which will be indicated by the drying up of the leaves. They are then ready to store for the summer. Remove the earth, drying the bulbs in the sun for an hour. Then place each variety in a paper bag and store in a cool, dry place until October. Bulbs so treated will bloom the following season, Moreover, it is possible to detect all diseased ones at digging time when they should be destroyed. These empty bulb beds can be filled with annuals or summer flowering bulbs referred to in the May issue.

LOOKING AHEAD SIX MONTHS.—Next winter at Christmas time you will want a window full of glorious red flowered Geraniums. Look around the greenhouse for a few small plants, the smallest you can find. Or, just as soon as you see some good red ones in bloom beg a few "slips," and root them in a shaded window in wet sand, or water. The "slips" started now will make blooming plants for Christmas.

Chinese Primroses must be started soon. Up in New England the seed is no doubt already started, but any time in June will do. Being a cool-loving plant it is a little difficult to carry over during hot weather, but they will grow slowly, but satisfactorily, in a lightly shaded situation. The summer started plants will bloom next winter. Do not forget Primula malacoides, or P. obconica. Do not grow the latter if it poisons you; it does some people.

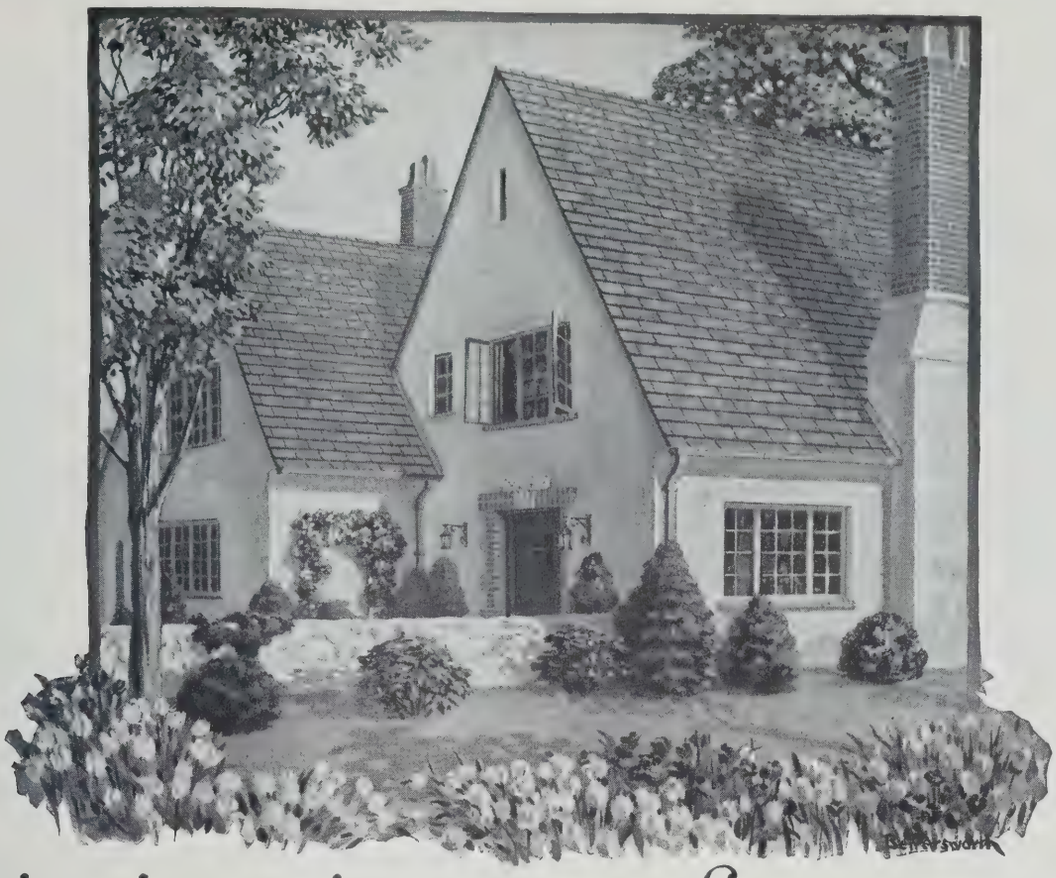
Cosmos seed started now, the plants grown in pots, will make beautiful fall window plants. As the plants grow shift them to larger pots until 8 or even 9 inch pots are reached, pinch the plants back from time to time, to make them bushy. They will give you lots of October flowers.

LEST WE FORGET.—An old lawyer giving a young one advice upon how to conduct a case, said, "The way to argue a case before a judge and jury is to keep hammering the facts regardless of their frequent repetition." That's us! Therefore:

1. It is still time to start that next year's perennial garden from seeds. Make a little bed that can be shaded, sow the seeds in rows, and when nicely up, transplant the seedlings to about three or four inches apart. They will make fine plants by cold weather.

2. Get some early large-flowered Chrysanthemums for next fall

(Continued on page 378)



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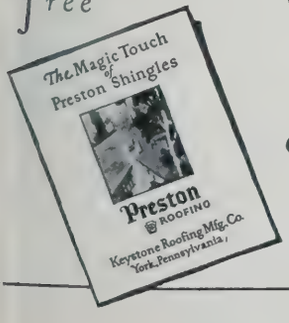

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(Canadian factory: Brantford)

(Continued from page 376)

flowers. They will make a glorious display, and besides, there will be lots of flowers to give to friends, or decorate the Church on Sunday. Give them a rich loose soil and see that they never suffer for water.

3. Sow some Scarlet Sage, or Salvia, seed. They will blossom from September to frost. That is plenty of time. Their fiery red blooms in August are out of place. Reminds one of a bonfire when pictures of icebergs are more acceptable.

4. Many of the bulbous plants talked about in the May issue like Dahlias and "Glads" may yet be started. A real gardener is always planting something.

RHODODENDRON HINTS.—Leave that mulch on the Rhododendron bed. The leaves will rot. These rotted leaves will hold moisture. Too many Rhododendrons are killed by summer droughts—no mulch to hold the moisture. Be sure to water the beds if there is dry weather, for they suffer from drought. The damage will not be apparent until next spring, and then the blame will be laid to the winter, but summer drought was the cause. Do that, and then when the flowers fade pick off the flower heads to prevent their perfecting seeds, so buds will be set for next year's crop. This is true of Mountain Laurel, too.

WATCH FOR THE LACEWING BUG.—It lives on the under side of the leaves sucking the sap, badly spotted leaves resulting. Make two or three sprays at weekly intervals of spray oil 1 to 40, or nicotine sulphate 1 to 800, in which soap or spray oil has been added as a sticker and spreader.

PRUNE THE SHRUBS.—Spirea vanhouttei, and the other spring flowering shrubs, including Lilacs, should be pruned to induce new growth. The more new growth, the more new bloom next season.

P. T. B.

Raising Bulbs From Seed

THE great majority of American gardeners are novices at raising bulbs from seed. The time seems to be at hand to start, especially the raising of Daffodils from seed. We can have a crop of new Daffodils from seed, our own novelties, almost if not quite as quickly as the American growers can import new varieties and propagate sufficient stock to sell under the terms of the Federal Horticultural Board rules. Watch the Narcissus for seed-pods this month.

They are not free seeders naturally and once we get into the swing of it, cross fertilizing will be a fascinating phase of gardening. The drawback of raising Narcissus from seed is that it takes five or six years to get them to blooming size. These first years are the hardest, but with annual sowings the new crop of Narcissus each year will be as fascinating as new Irises, new Gladiolus, or new Dahlias from seed.

Wrap seed-pods with gauze or other light material so the seed will not be lost. Sow in a coldframe. I usually wait until fall, the seed germinating in spring. Let the bulbs remain two years in the frame. For some reason, I have never been able to winter the little one year bulbs in the open. They attain the size of a small pea the first year. The foliage is deep green, tubular and onion-like at the start. Their second fall they can be set into the open to remain where they are to bloom. Some will be good, some not so good, and a very few are likely to be very good—but they will be new Daffodils as they vary considerably.

Once started, there is no reason why American amateurs shouldn't do as well at turning out Narcissus novelties as the English amateurs. Some English firms sell seeds of the finer Narcissus, A starting supply can be secured that way if we miss seeds in our own gardens.

S. R. D.

For the Far South

THERE seems to be a general impression here that there is nothing to do in the garden in June but keep the grass cut and the weeds out. However, there are some seeds which can be planted to good advantage, and small plants which can be set out. These latter are the Crotons, Coleus, and Alternanthera. Used together, with the Crotons for the center, the Coleus next and the Alternanthera as a clipped border, these make a lovely bed of bright color all summer, and June is the month to put them out.

Hibiscus, Althea, Lantana, Buddleia, and other flowering shrubs may be set out if young plants are selected, the hole for planting well filled with water before the plant is placed, the soil well packed after placing the shrub, and a top dressing of dry soil is used to keep the soil from "baking and cracking" around the plant. Do not water again for five or six days. If the sun is very hot the "steam" from the wet ground beneath the plant will cause it to wither before its roots are firmly set and feeding the plant properly. A paper tent, made of a newspaper and held down by clods of dirt, will help to keep the sun off for a day or so and give the plant a start in summer.

In fact, many greenhouse or potted plants for the home should be put

(Continued on page 380)

"THEY ARE VERY GOOD LOOKING"

Ambler Asbestos Shingles on Coolidge Home

THE house and adjacent buildings of the late Col. John C. Coolidge at Plymouth, Vt., covered with No. 9 non-fading Green Ambler Asbestos Shingles, placed there after his thorough investigation and inquiry for a permanent, fireproof roof to protect the building made famous by the fact that his son had taken his first oath of office here as President of the United States, after the death of President Harding.

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SARGENT
LOCKS AND HARDWARE

(Continued from page 378)

in the ground during the summer months so that they may make more root growth than is possible in pots. Cestrum, Abutilon, Geraniums, Hibiscus, Palms, Aspidistra, Caladiums, Clerodendron, Dracaenas, all the Jasmines, Lagerstroemia, Passiflora, and many others which are greenhouse plants in the North will do much better out in the open here and may usually be left out all winter. Many die back if there is a severe winter, but will come out from the roots again in the spring.

Corners in the garden may be brightened for the summer by planting the two Euphorbias popularly known as Snow-on-the Mountain and Fire-on-the-Mountain, or by the use of Castor Oil Bean (Ricinus) plants. There are several varieties of this plant. Then the various Salvias are good summer plants to use in mass planting.

Walls and fences, arbors or even old stumps and the stakes that supported the Sweet-peas in the spring may be quickly covered and made beautiful with a delicate lacework of green, sprinkled with white or red stars, by sowing a package of Cypress vine seed. If one prefers yellow flowers, plant Thunbergia, or for the lovers of blue and white, sow Maurandia. It is not too late for Morning-glories, and the little red Mexican one makes a nice change from the varieties usually used.

Plant Cosmos, Gaillardia, Mexican Poppies, Balsams, Vinca (rosea and alba), Sunflowers, Marigolds, Zinnias, Torenias. The Torenia is a Mexican plant which likes hot weather and can be planted later than any other annual. Its blue and yellow blossoms are somewhat like Snapdragons, but they do not grow so tall nor in such compact racemes; they form a low border of eight to ten inches, giving rich and brilliant color. Lobelia, another low growing border plant, also has blue flowers and does not mind the hot months.

There is nothing to be done in the orchard except to enjoy the peaches and figs and grapes as they ripen, and to keep the ants from the trees and fruit by keeping ant poison in cans or bottles (without stoppers, of course) in and around the trees.

In the vegetable garden, the growing crops will require much attention, as the weeds grow fast during this month. Corn may be planted for the last supply of roasting ears. Water and Musk Melons, Cucumbers, Okra, Squash, and Pumpkins planted this month generally do well, but if the weather is hot and dry they require an abundance of water. Continue to set out Sweet Potato slips or vines. Cabbage for winter crops can be sown this month, as the plants are generally more easily raised during this month than the following months.

E. H.

In the California Garden

MANY flowers are already forming seed, and unless seed is wanted for sowing, all the spent blossoms should be cut off, so that the plant may recover and perhaps bloom again. Coreopsis and Calliopsis should be cut often for continuous bloom, as well as Sweet-peas and Alyssum. Delphiniums should be cut down after the first blooming, cultivated and fertilized, and they will bloom again later in the summer. Use bonemeal or commercial fertilizer for Delphiniums as the worms in fresh manure, particularly if too near the roots, often destroy the plant.

Continue to plant Gladiolus bulbs every two weeks for succession of bloom, and a better effect is produced if the bulbs are planted in alternate rows or places. Dahlias, Chrysanthemums, Cosmos, and Salvias may be set out to replace the spring-flowering bulbs and plants. Also seedlings of Zinnias, Calliopsis, Coreopsis, Asters and Scabiosas may be set out now.

Keep the garden well irrigated and well watered, conserving the moisture by keeping the soil loose and porous by cultivation, and mulching the plants with old manure, straw, or grass clippings.

Wisteria requires close pruning every year or there will be more foliage than blossoms. It may be trained as a shrub by tying it to a stake, pruning the top and leaving the side branches to flower. Wisteria may be easily rooted now by means of layers. Cut a slit halfway through a branch or shoot and then bury it in the ground one inch deep. Peg it down, bending the end of the branch upward, cover lightly with soil, keep it watered and the layer will soon root, when it may be cut away from the plant and set out.

Alpine or rock plants, including the Sedums, Crassulas, Creeping Phlox, Aubretia, etc., that have bloomed may be propagated now by cuttings. Cuttings may also be made now of Carnations, and Nepeta mussini taken from the new growth at the base of the plant, and also of Chrysanthemums. Young plants already well rooted should be planted in pots or in the open ground, taking care to shade them for a short time until well established.

The European Iris may be moved or divided just after blooming or even during late blooming, if the blossoms are removed and the leaves are cut back. This enables them to become well established before winter as the rhizomes send out new rootlets after the blooming season. Plant in a sunny place near the surface of the ground, and do not let manure come in contact with the rhizomes.

Prune all the spring-flowering shrubs that lose their leaves as the flowers bloom on the second year's wood.

E. U.

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Preserving Wood Fences and Houses

(Continued from page 360)

important item in the treatment is that the penetration of the creosote shall be deep enough so that future checks or cracks will not expose the untreated wood.

These wood rotting fungi are also the cause of the heart rot of trees. The heart wood of a living tree is dead and if exposed by wounds, as in pruning, it is immediately open to the attacks of these rot fungi. Therefore be careful in cutting off the limbs of trees to make the wound as small and as smooth as possible so that the bark can easily heal over the cut. The surface of the cut should also be coated with tar or some similar substance rather than with paint. Tar will not check and break as easily as paint, hence it forms a better protection. The purpose in coating a wound is to prevent the entrance of the rot fungi.

A fence post taken from the soil to show that the rotting occurs only near the ground level. Notice that the wood is comparatively sound above the ground level and where the post was deep in the soil

Wood kept in a dry place usually will not rot. The exception is the dry rot disease which is caused by a fungus that seems able to live in and to destroy the driest of timbers. Sometimes this will attack the wood work in houses but seems to be confined largely to the southern half of the United States. At least two fungi are the culprits in this case (*Poria incrassata* and *Merulius lachrymans*) and no kind of wood seems to be immune.

The beginning of the trouble is usually apparent in the first floor where the timber is close to the moist soil. The fungi form heavy root-like growths extending to the moist soil and through which moisture is carried to the growth in the dry timbers far above. Often the first intimation of trouble is the breaking of the floor or of a wall where the floor boards or lath have decayed and crumbled.

The prevention of this decay is to provide ventilation to dry the soil beneath the house. Where this is not possible creosoted timbers must be used and the floors raised as far from the soil as practicable and on brick or concrete piers since they will not serve as a conveyor to the fungus.

Converting Old Homes

(Continued from page 343)

the land slopes the length of the house. The older houses seldom have cellars beneath them—a disadvantage when adding a furnace—and if one can afford the excavation, it is well worth while to make one under a portion of the house while other improvements are going on. Sometimes in the hillside houses, there is a sort of cellar on the ground floor at the back, behind the principal rooms, and in this, with some further excavation, a steam or hot water furnace can be installed.

In the more important houses, the principal rooms often have simple panelled walls with touches of home-made carving. Another delightful feature will be the original iron hinges, door latches, knobs, etc. Sometimes the walls are of rough plaster or covered with early wall-papers. When these are too soiled or torn to keep, copies of old hand-blocked papers can replace them in the halls or large rooms, but generally speaking, in a smallish house, plain tinted or natural-colored rough plaster walls wear best in every sense, and are the most restful to live with. They give a better opportunity for the use of quaint prints or old paintings, whose decorative value would be lost on a figured wall-paper.

Many people feel it is necessary to furnish 17th and 18th century Colonial houses with early American furniture of the same period. It is well to use a substratum of this furniture to carry out the illusion of the period in which the house was built; but all houses are more livable if one does not adhere too slavishly to the furnishing of any one country or exact period. To harmoniously assemble old furnishings of all sorts, from several countries, or their reproductions of the same general period, gives a more interesting effect than to remain a doctrinaire and insist on the entire furnishing being of the period and country in which the house was built (see pages (342, 343). At the same time one realizes that there is also a genuine pleasure and interest in adhering faithfully to the period idea of house furnishing, though the other method gives a better chance to introduce some of the owner's personality and ideas into a house while furnishing it suitably.

Almost all old houses in the country face the nearest road, and are

(Continued on page 388)

It adds new charm to hospitality

WHETHER you entertain simply or elaborately you will find Frigidaire a delightful aid to hospitality. Every dish served in your home will have a new richness of flavor, for Frigidaire preserves perfectly the original purity and freshness of all foods. And the Frigidaire freezing trays will not only provide a constant and ample supply of sparkling ice cubes, but will also freeze the most delicious of desserts.

You will be delighted with the beauty of the new metal cabinet Frigidaires. They are finished in lustrous white Duco, trimmed with bright metal, lined with seamless, porcelain enamel. They are equipped with the same dependable mechanisms that are already giving complete satisfaction to more than one hundred and fifty thousand users. They are the best Frigidaires ever built—yet their prices are lower than ever before, and they may be purchased on the GMAC plan of deferred payments if desired.

Frigidaire is built by the world's largest makers of electric refrigerators. It is backed by the financial and engineering resources of General Motors. It offers to you the greatest values in the field of electric refrigeration.

We shall be glad to send you the Frigidaire catalogue, together with a beautiful book which illustrates prize-winning kitchens equipped with Frigidaire. Write for them today.

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ELECTRIC REFRIGERATION

DELCO-LIGHT COMPANY,
Dept. Z-41, Dayton, Ohio.

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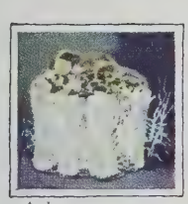

Asbestos, a wonderful fibrous rock is the basis of these shingles.

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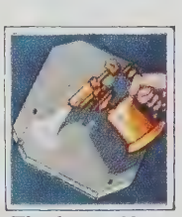

The famous blow-torch test proves their fire-safety.

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ASBESTOS SHINGLES

John Davey's great contribution to America

JOHN DAVEY, Father of Tree Surgery, "*Do it right or not at all*"

John Davey was born in England, June 6, 1846, at a time when there were no public schools. This hardy and humble genius was twenty-one before he knew his A B C's. So he started in as a full grown young man to learn to read by the slow and painful process of self-education. He began with a little copy of the New Testament and a small dictionary, picking out one word at a time. Later he acquired a grammar so that he might put the words together properly, meanwhile studying horticulture and landscape gardening during a full apprenticeship at Torquay, England.

Then he heard the call of America, this great land of freedom and opportunity; and, like millions of other sturdy sons of Europe, he came here to work out his destiny. He pursued his education still further, working by day and studying by night, until he acquired an education that would do credit to the majority of college graduates.

Perhaps one of the most striking things about him was the fact that he became one of the finest Americans. He learned every word of our Constitution. He learned every word of every verse of America and the Star Spangled Banner; and, until old age laid its heavy hand upon him, he could sing those songs with a zeal and a fervor that was good to see.

He became a full citizen at the first opportunity under our law, and to him it was a sacred day when he raised his right hand and forswore allegiance to the British crown and swore allegiance to the Constitution and the flag of America. And always, during his fifty years in his adopted country whenever he passed by Old Glory, he would tip his hat in veneration.

John Davey saw with eyes of understanding and sympathy the appalling neglect and butchery of America's trees, and he set out to find a way—a systematic, scientific way—to save them, little dreaming that a great business would be developed on the science that his love and genius created. And thus came into being the wonderful profession of Tree Surgery.

His first book, The Tree Doctor, was published in 1901, and then began the gradual development of The Davey Tree Expert Company, incorporated in 1909, doing a business of nearly $2,000,000 in 1925, and now having in the field nearly 700 master Tree Surgeons, all carefully selected, thoroughly trained, properly disciplined, and regularly supervised, and giving superior service to the tree owners of America. For twenty years the business of this institution has been managed by his son, Martin L. Davey, whose highest aim has been to perpetuate the ideals and philosophy of his pioneer father.

John Davey, though not now living, still lives in the spirit and purpose of the magnificent service that he rendered his adopted country—he taught the American people to think in terms of the living tree. Greater even than his creation of the invaluable science of Tree Surgery is his contribution as the apostle of the tree as a living thing.

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Branch offices with telephones: New York, 501 Fifth Ave., phone: Murray Hill 1629; Albany, City Savings Bank Bldg.; Boston, Massachusetts Trust Bldg.; Philadelphia, Land Title Bldg.; Baltimore, American Bldg.; Washington, Investment Bldg.; Pittsburgh, 331 Fourth Ave.; Buffalo, 110 Franklin St.; Cleveland, Hippodrome Bldg.; Detroit, General Motors Bldg.; Cincinnati, Mercantile Library Bldg.; Indianapolis, Fletcher Savings and Trust Bldg.; Chicago, Westminster Bldg.; St. Louis, Arcade Bldg.; Kansas City, Scarritt Bldg.; Minneapolis, Andrus Bldg.; Montreal, Insurance Exchange Bldg.

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Order Now– before the Leaves turn!

YOU SAVE!

Order Now—These lovely Harbingers of Spring

at our special Import prices good till July 1st

The embargo on these lovely spring beauties has been temporarily lifted, so that we may at least import them this season, and this may be **your** last chance to buy imported bulbs of these invaluable early spring flowers. Plant them freely through your lawn, shrubbery, and perennial borders and in the rockery —they will yield rich dividends of pleasure as they increase in beauty and numbers from year to year.

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Chionodoxa, (Glory of the Snow)	$3.50	$30.00
Grape Hyacinths, Blue	2.50	20.00
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Scilla Sibirica, Blue	5.00	45.00
Scilla Campanulata, Blue (Blue Bells)	4.00	35.00
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Choicest selection of latest and most beautiful Nasturtium-shaded varieties including the lovely Primulinus or Orchid Gladioli—Better double the order if you have room for them—you won't have a bulb too many.

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thru lifetime contact with the Holland Bulb District, are equally noted as discriminating importers of fine Dutch Bulbs.

¶ *The unquestionable advantage* of making up your Bulb Order early, lies in the fact that you can choose from an extensive "Import-to-order" list and share in the pick of the Dutch Bulb Crop.

¶ Our Peony and Bulb Issue, illustrated in color, comes at a time when these glorious flowers are in bloom, making it easy to get the right selection. A copy will be sent free upon request.

If you did not receive our 1926 catalog of Perennials and other hardy ornamentals, a copy may be had on request

A 60 Inch Cut— 10 Acres a Day

THE Coldwell Model "L" Motor Lawn Mower and Roller, without the gang units, mows and rolls simultaneously a 25 inch swath. With the units attached, its capacity is more than doubled, increasing the cutting swath to 60 inches. One man with a Model "L" can complete 10 acres of mowing a day—on one gallon of gasoline. Extremely flexible, it cuts close up to and around trees and shrubbery and along walks and borders. Climbs extreme grades with ease and readily follows the contour of the ground. Simple to operate, economical and dependable. Upon request, we will be pleased to have our nearest Coldwell dealer demonstrate on your lawn.

The Coldwell Electric (*pictured below*) mows as it goes—all the operator has to do is steer it. Plugs in on any garage or house light socket—either alternating or direct current—and uses about as much current as that required for an electric iron. 300 ft. cutting radius—cable on an automatic reel.

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Dependable Lawn Mowers

Hand · Horse · Gasoline · Electric

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Gentlemen:—
Kindly send me your free booklet checked below on

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Yours very truly,

Name .....

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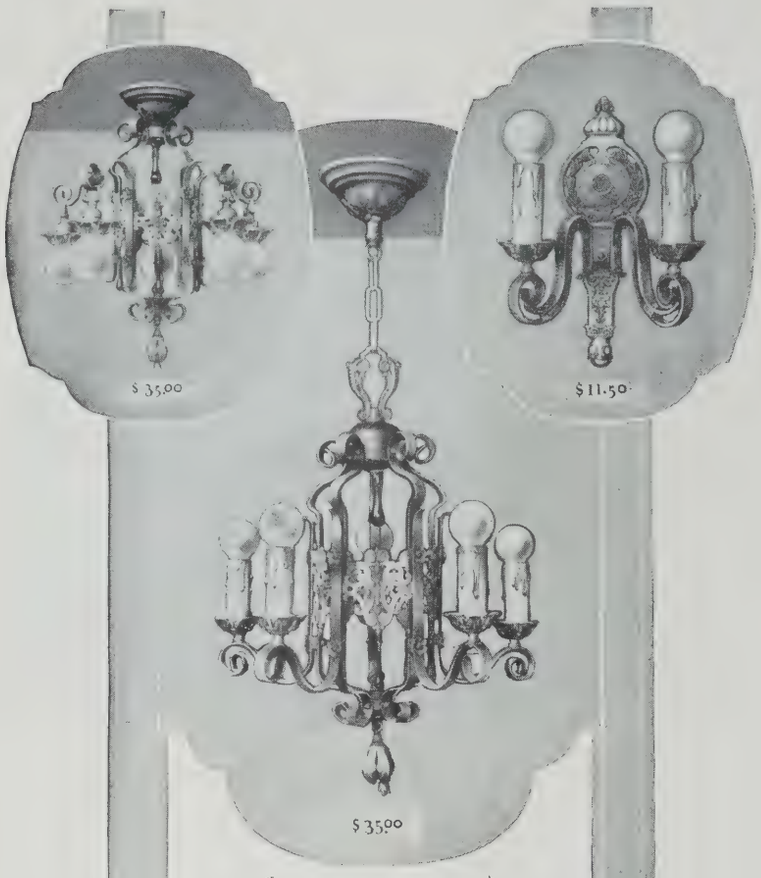

Beautifully illustrated booklet "Your Home Deserves Fitments Like These" sent on request

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LIGHTING FITMENTS

YOU can add an extra measure of beauty to your home by the installation of Markel Lighting Fitments and at the same time save money. For Markel fitments not only cost less by comparison, but after long years of satisfactory service they will be as thoroughly in good taste as when you install them.

Here are shown selections from the Markel DeLuxe line. Note especially the balanced proportions and characterful designs—and then picture for yourself the beautiful new Moreno finish, a stippled background toned to a warm brown with decorations in polychrome.

Markel fitments can be had in several other widely different lines, each outstanding for value and lasting style in its price class. See these complete lines at the dealer's nearest you before you build, remodel, or redecorate. All fitments illustrated are priced without bulbs.

MARKEL LIGHTING FITMENTS, Inc.

Dept. 6—147-E SENECA ST.
BUFFALO, N. Y.

Converting Old Homes

(*Continued from page 382*)

close to it, having been built when any passing stranger was a refug from loneliness and proximity to the high road saved labor in clearin snow in winter, and keeping one's own roadway in order at all time Contrary to all this, the nearness of a highway is a curse to our moder senses, with its dust, noise, and contact with strangers, whom most of have fled from the city to avoid. We do not have to consider the ca of our road either, for modern road construction, snow plows, etc eliminate much of the labor of caring for them.

All this being so, we naturally turn with relief to the back of our new found country house and there the view is usually the best. It is simple matter to plant a hedge along the high road, on the erstwhi front of the house, change the entrance, and build a living terrace at th back, where the view and quiet are. The use of the rooms can be r adjusted and in a short while, the former rear of the house will be co verted into a comfortable and picturesque out-of-door living-room (s page 343), paved underfoot, and if one is fortunate, having the shelter an apple or shade tree over one's head. Except for very cold or w weather, one's meals, naps and studies may all take place in the qui comfort of this terrace, and if one has a sufficient water supply, th addition of a pool or fountain will add the last touch of dreamy comfo and push the thought of the city still farther away.

[*Part II of "Converting Old Homes" will follow in a later issue.*]

An Old Stable Becomes a Home

(*Continued from page 349*)

good-sized east bedrooms (over the living-room), a radio-room (with i original 9 ft. eyebrow dormer) and a tile bath with a standing showe And, too, on this floor we have six roomy closets (one cedar lined) an six half-closets under the eaves for storing luggage, etc.

Interesting architectural problems arose, such as whether or not excavate and by so doing destroy, at heavy expense, the splend concreted brick floor; how to have eight and a half foot ceilings whe eleven foot heights prevailed; and how best to arrange the down stai to have *all* the rooms on the sunny side of the house.

We finally began by digging up the concrete and brick under th place where the stalls had been and making a cellar 18 x 20 ft. We als concluded to build the new double floors of the living-room and th dining-room two and a half feet above the original concrete, and in th space thus formed to run the pipes from the hot water furnace, electr conduits, etc. This also had the happy effect of bringing the ceilin to the desired height.

With the living-room taking the lion's share of the house, and its ligh assured from three sides, and the dining-room, kitchen, and laundr stretching back of it along the south side to the back of the buildin we were able to secure south sunshine in all these rooms and afternoo sun in the remaining one, a bathroom off the laundry.

We took space for the garage from the least desirable, northwes corner of the house, leaving the old concrete floor just as it was.

Although our living-room is very large it is cozy. We effected th first by beaming the ceiling and then by not having it a regular rec angle.

The vestibule forms a jog of about 5 x 8 ft. It has an interestin floor of four-inch oyster white tiles flecked with black and laid i black mortar. At one end is a handy coat closet and at the other is caned seat which covers the radiator.

The dining-room cuts another jog into which the fireplace set We consider the fireplace a triumph of oldtime comfort and art. is nine feet long and built of golden tapestry brick laid up with crea colored mortar, with a hearth of buff tile.

The stairs ascend from a fireside nook at the right.

At the south end of the living-room are three pairs of French doo which lead out upon the open brick terrace.

The dining-room was specially designed as a setting for an old oa monastery table and benches. This rough worm-eaten treasure eight feet long and three feet wide. The quaint Gothic cupboar (which is really an opening cut in the back of the kitchen "dresser" and the queer little replica of old oil lamps (which are splendid electr lights) together with the antique printed English linen hanging and the warm tan-colored rough walls give this room an air which entirely individual.

These same rough tan walls and old draperies are repeated in th living-room, and this color scheme is carried out throughout the hous except that the other walls are painted and stippled, and the color ha more of a yellow glow. All the woodwork is a creamy oyster gray. is an illusive tone, neither gray nor cream nor white, and bespeaks th skill and interest of our decorator.

From the north end of the dining-room we step down two stairs to th cellar hallway and to the garage. And oh, the luxury of having th car right in the house! To drive out into the storms and back withou having to go out into the weather is a comfort we would be loath t

(*Continued on page 392*)

The Invisible Film Guards Your Roses

Use These famous Rose Sprays — the last word in Plant Culture

Fungtrogen
FUNGICIDE FERTILIZER

For professional results. Controls mildew, blackspot and other diseases. *Its invisible film is your safeguard.*

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For leaf chewing insects, caterpiars, slug worms, Japanese bitle, etc.

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Aphistrogen
APHICIDE FERTILIZER
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The Aphicide Supreme. For all plnts subject to aphids or plant lice

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4 oz.	$ .85	2 lbs.	$ 4.00
8 oz.	1.40	12 lbs.	15.00

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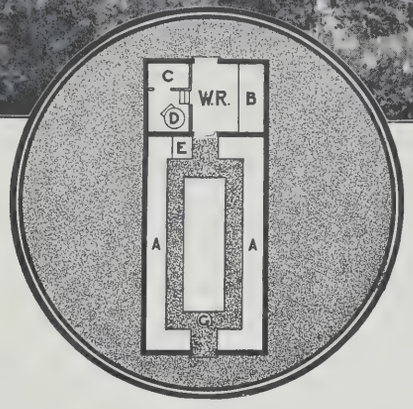

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Does he know that with such a house there is no extra cost for a work room?

Does he know that costly foundations are not necessary, with our method of construction?

Does he know that the equipment includes all the benches, as well as the heating system, and none less than a Burnham Boiler?

Does he know that the materials are all cut and fitted, so far as possible, for immediate erection by your local mechanic?

Does he know that $1650 actually includes everything, even to the paint, nails and screws?

Send for the circular and show him, the full particulars.

Build your house this summer and be all ready timely to meet Jack Frost's threats.

FOR FOUR GENERATIONS BUILDERS OF GREENHOUSES

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When Yokohama Came Back Into the Fold

The Orient demands the Best! For years we supplied one of Japan's horticultural supply houses with Genuine *"PHILADELPHIA"* Lawn Mowers. Then, one year, the order was given to another firm selling machines that cost less.

Just one year elapsed when the Yokohama Order came back to the home of the *"PHILADELPHIA"* Mowers. But it took several years before the Yokohama merchant outgrew the setback due to handling inferior mowers just one season.

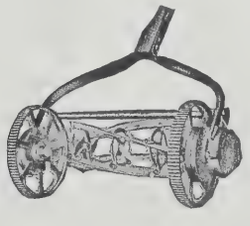
Dealers the World Over Know

While the initial cost of a Genuine *"PHILADELPHIA"* Lawn Mower is nearly always higher than that of other makes, yet, they are worth much more for these vital reasons:—

They are made of the finest materials that over a half a century's experience can select.

They are constructed along such perfect lines mechanically that they will outlive any other mower.

For above two reasons they are guaranteed to give greater satisfaction all around than mowers costing less.



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Building Genuine *"PHILADELPHIA"* Mowers is our *only* business. By giving undivided attention to it, from the day the founder invented and introduced the first side-wheel Lawn Mower, to the present moment, we succeeded in establishing new and higher standards of perfection. Today we are the largest manufacturers of highest grade mowers in the world!

Free Catalog Tells More

If you like good tools to work with, you'll enjoy reading our catalog No.25. It describes the entire line of Genuine *"PHILADELPHIA"* Hand, Horse, and Motor Mowers—a mower for the needs of every owner of lawns, large or small. Please ask for the catalog to-day, mentioning this publication.

The Philadelphia Lawn Mower Co.
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The National Garden Association

Formed to promote the annual observance of National Garden Week

LEONARD BARRON, F.R.H.S., President

Honorary Vice-Presidents: J. HORACE MCFARLAND, MRS. FRANCIS KING, MRS. RUSSELL TYSON, MRS. THOMAS G. WINTER, MRS. SAMUEL SLOAN, MR. FREDERICK NEWBOLD, MR. ROBERT PYLE, MRS. JOHN D. SHERMAN.

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WITH the coming of June the work of the many garden clubs speeds up, one phase particularly demanding attention. This is the preparation for some flower show, that wonderful interest arouser in any community and which this year will he held in many hundreds of communities. So many requests have come to us for information on how to conduct these, how to judge them, how to divide the groups of flowers, etc., that we are very glad to publish a schedule of a Tulip Show that will prove of much help. This was sent us through the courtesy of the Garden Club of New Rochelle, N.Y. This club is a member of the Federated Garden Clubs of New York and has long been famous for the success and beauty of its flower shows and for its deep interest in all lines of civic beautifying.

The following schedule will be welcomed by garden clubs everywhere and if any club has any other proved schedule for a different kind of special flower show, we shall be very glad to have it. Also we suggest that each club write to the Bureau of Publications, Dept. of Agriculture, at Washington, for a copy of their free Department Circular No. 62. This is a comprehensive, helpful pamphlet that covers a variety of important flower show points.

SCHEDULE OF TULIP SHOW

The Cut Blooms

(Scale of Points for Cut Flowers: Culture 35 points; Form 25 points; Freshness 25 points; Color 15 points. Total 100.)

Class 1. Specimen Bloom.

Class 2. Three Blooms, 1 variety, named.

Class 3. Three to Six Blooms, assorted varieties named.

Class 4. Vase of 10 Blooms, 1 variety, named. These classes to be applied to each of the following sections:
A, Early Single; *B*, Early Double; *C*, May-flowering or Cottage; *D*, Darwin; *E*, Breeder; *F*, Parrot.

Class 5. Collection: 1 of each variety (not less than 10) up to any number.

Flower Arrangement

(Scale of Points for Judging Artistic Arrangement: Perfection of Arrangement 25 points; Color Harmony 25 points; Relation to Receptacle 25 points; Proportion 25 points. Total 100.)

Class A. Artistic arrangement, any foliage permitted, in a low bowl or receptacle.

Class B. Artistic arrangement, any foliage permitted, arranged in a vase.

Class C. Artistic arrangement, any foliage permitted, arranged in a basket.

Also, if desired, a table decoration specifying tones of any specified color, as yellow, pink, etc. This is best if made a luncheon table decoration as Tulips close at night and lose much of their beauty; also specify what accessories are to be allowed. Service plates only are usually best for beginners.

All flowers exhibited, except for table decorations, must be grown by the exhibitors.

FROM Montana comes a report of the state-wide activities of the garden department of the State Federation of Women's Clubs that will prove an inspiration and incentive to every garden club. This work is under the splendid direction of Mrs. Warder I. Higgins of the Butte Garden Club, who is offering prizes for photographs of a growing community Christmas tree and also for a living home Christmas tree. This is done to learn to some extent the number of these growing Christmas trees that have been planted throughout the United States.

Another worthwhile activity is the planting this spring of Christmas trees for this coming holiday time. Writing in *The Montana Woman*, Mrs. Higgins says: "This is not alone a forest conservation measure, but one which advocates the planting of more trees to beautify our city parks, school grounds and home gardens and is worthy of consideration by the club women of the country. In many California cities, growing trees are lighted each Yuletide and are known as 'Trees of Light.' Des Moines, Iowa, known as 'the Christmas Tree City,' has for a number of years had many evergreens beautifully illuminated in the home grounds and parks during the Holidays. Tacoma, Washington is also striving to become a city noted for its illuminated living Christmas trees."

The time to plant these trees is *now* and we are glad to learn of the wide-spread popularity of this living tree custom. Reports are coming to the Association from all parts of the country telling of especial activity planned for this year. One club has made its club dues payable in a small evergreen given by each member to be planted in some public park or other place. With a membership of 30 it will not be long before this small city will present a wondrous sight at Christmas time. The American Tree Association in Washington D. C. is giving generous help to any one interested in tree planting. Any one who plants a tree is eligible to membership in this organization and may have a Tree Planting Bulletin sent free on request. In fact, all information about trees and forests will be sent without charge to any one, the aim of the Association being to aid the public in tree planting and knowledge of our fores needs.

A leaflet that will give many helpful sug gestions to garden clubs interested in civi beautifying is one issued by The Nationa Committee for Restriction of Outdoor Ad vertising. This is entitled "What Attract Tourists to Your Town" and the answers t this question are so helpful that we quot some of them:

Answer No. 1: A beautiful approach Nothing advertises your town so effectively Carelessness can ruin an approach whic nature made beautiful. Organized effor can beautify any approach.

Answer 2: An attractive marker. Tour ists like to know the name of the town the are approaching. The sign which marks you town should be dignified and artistic. Un fortunately many towns have markers whic are merely huge scenery-blotting board giving extensive history or bewildering statis tics which few take the trouble to read. Wh not so letter a marker that on one side th tourist reads the name of your town and o the other, as he leaves, he will read the nam of the next town and the number of mile which lie between?

Answer 3: A worth-while welcome. Not succession of signboards along the highway repeating—The Chamber of Commerce Wel comes You—The Rotary Welcomes You, an so on. These monotonous assertions mea little and only serve to blot the landscape The welcome which impresses the touris comes from courteous traffic officers.

Answer 4: Efficiently handled traffic.

Answer 5: Convenient parking.

Answer 6: Dignified business streets. Th appearance of many towns could be improve by getting rid of undignified signs—the fir sale sign, the roof sign and the projecting sign

Answer 7: Descriptive signs on factories If your town possess mills and factories wh not label them with the class of goods manu factured? This interests the average tourist Why not write the information on the mi instead of on the landscape? If a factor has open space, why not make a park of it An attractive yard is a better advertisemen than a blatant sign.

Answer 8: Good advertising. What con stitutes good advertising for a town or city Certainly not the highway billboard which de stroys a leading asset of the community, it natural beauty. Good advertising creates goo will. The rural billboard creates resentment

For free constitution, programme and b laws for garden clubs write to the Nationa Garden Association, Garden City, N. Y

ELLEN D. WANGNER, Secretary.

FIFTH ANNUAL NATIONAL GARDEN WEEK, APRIL 17th—24th, 1927

lect Higgin Screens

for beauty *and* durability

Iggin screens will enhance instead of detract fm the beauty of your home. They are i onspicuous and can be made to harmonize vth your room interiors.

'e frames are narrow all metal construction, ls than one half inch thick and one and one-steenth inch wide—therefore neat, trim, and ionspicuous. They may be enameled in a' color to blend with woodwork and drap-es. The wire-cloth is of rust-proof bronze -never needs painting—gives permanent sat-isction.

Scial designs for every kind of opening, in-cding casements of all types, insuring perfect civenience of operation.

Ak your architect or write for an estimate al the two books illustrated. There is a Higgin service man in every principal city. Lk for Higgin in your telephone directory.

These books will show you how Higgin screens and weatherstrips are designed for the kind of windows and doors in your home. Send for them.

HIGGIN
ALL METAL
Screens *and* Weatherstrips

Tle Higgin Mfg. Co., 511 Washington St., Newport, Ky.

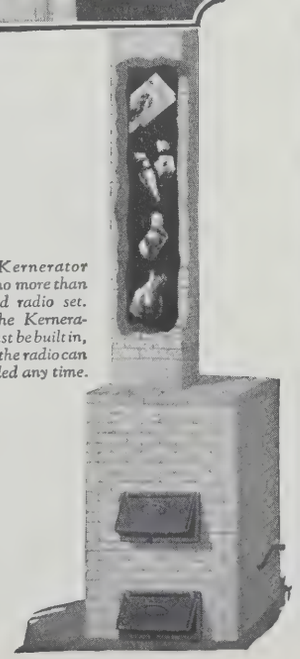
Kernerator-equipped home of Mr. John A. Farrell, So. Norwalk, Conn. Architect, Leroy Ward.

Mr. John A. Farrell Urs the Garbage Can

THIS beautiful home of the President of the United States Steel Corporation is, natu-ally, Kernerator-equipped. No garbage cans, o rubbish piles, but instead, just the handy Kernerator hopper door in the kitchen. Into his hopper is dropped *all* waste—not only gar-bage, but sweepings, tin cans, bottles, maga-ines, wilted flowers and rubbish of all kinds. Falling to the brick combustion chamber be-ow, it rapidly dries, when an occasional ighting destroys all but metallic objects and uch non-combustibles, which are flame-terilized for removal with the ashes.

No fuel used—no upkeep cost. Guaranteed by he inventors and pioneers of flue-fed incin-ration. Must be built in—can't be installed ater. Ask your architect or builder—he knows nd will recommend it. See 'phone book for earest Kernerator representative (one in ach of 25 cities). Write for booklet, "The anitary Elimination of Household Waste".

ERNER INCINERATOR COMPANY
31 East Water St. Milwaukee, Wis.



The Kernerator costs no more than a good radio set. But the Kernerator must be built in, while the radio can be added any time.

HE CHIMNEY-FED INCINERATOR

ERNERATOR

REG. U.S. PAT. OFF.

Garbage and Waste Disposal without Leaving the Kitchen

OAK

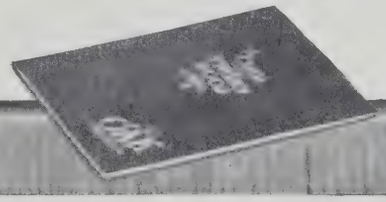
THE SOVEREIGN WOOD

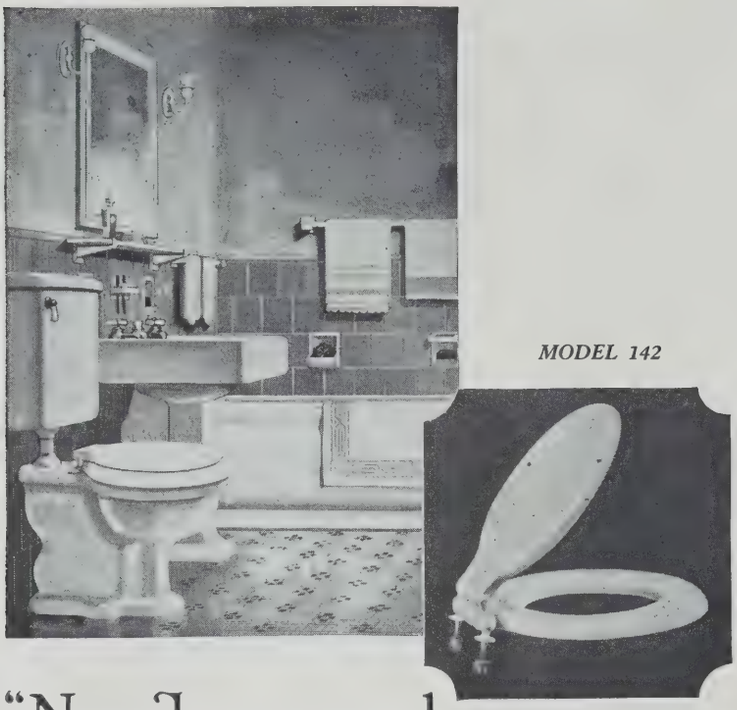
THE CHARM *of the* SOVEREIGN WOOD

WHAT is your fancy, an Elizabethan or Jacobean interior in the best tradition of the periods, to punctiliously observe architectural motif? Or furniture of modern interpretation, decorative and reposeful, finished most pleasingly in soft, dark effects? In either feeling, the choice can safely be Oak, "the sovereign wood." A wood of surpassing heirloom qualities, indeed a beautiful, characterful medium of expression for cabinet work, when intelligently handled.

Here you view a faithful echo of one phase of the Elizabethan, with furniture and woodwork in the predominant wood of the period, Oak. Perhaps you would like to see other delightful interiors, explore the history of period furniture, and mayhap learn something of a predicted period, "Renaissance Oak." If so, you will not forego this opportunity to obtain a free copy of the eighty-page brochure "The Charm of the Sovereign Wood." Simply address Dept. G.M., Oak Service Bureau, Hardwood Mfrs. Institute, Memphis, Tenn.

"The Oak Renaissance Is Here"





MODEL 142

"Now I am proud
to entertain important guests"

THIS was the remark of a woman whose husband was rapidly forging ahead in business. With important new friends to be entertained, one of the things they found they could easily do to dress up their home was to replace the old, dark-colored toilet seat in the bathroom with a handsome, modern "Church" Sani-white Toilet Seat.

The improvement made by a spotlessly clean, all white toilet seat is surprising. Its beauty and refinement are qualities every woman wants in her bathroom—a room she can be proud to have guests use.

A bathroom luxury everyone can afford

IF YOU lived in one of those palatial apartments on Park Avenue in New York City, where you have to pay $2,000 to $7,500 a year rent, you still couldn't have in your bathroom a better toilet seat than the "Church" Sani-white Toilet Seat. This is the seat you find in those luxurious apartments, yet its price brings it within the reach of all.

The "Church" Seat stays permanently white. Its handsome ivorylike surface won't crack, splinter, chip, wear off or stain. It washes as easily as porcelain, you can install it yourself on any toilet in a few minutes. Obtainable at any plumber's.

Are you proud to have guests go into your bathroom?

IF YOU have sometimes wished that your bathroom looked a little more attractive and up-to-date, send for "An Easy Way to Make a Bathroom More Attractive." This is an attractively illustrated little book of sixteen pages, that tells the story of the interesting way in which Mrs. Mildred Stevens discovered how to make a bathroom more attractive. It will certainly be of value to you, and it is absolutely FREE. With no obligation, send for a copy, together with a free sample of sani-white sheathing which forms the surface of "Church" Seats. The coupon will insure your receiving the book by return mail. C. F. Church Mfg. Co., Dept. L4, Holyoke, Mass.

Church Seats
sani-white

LOOK FOR THIS NAME ON UNDER-SIDE OF SEAT

C. F. CHURCH MFG. CO., Dept. L4, Holyoke, Mass.
With no obligation on my part, please send me a free copy of your book, "An Easy Way to Make a Bathroom More Attractive," together with free sample of Sani-white sheathing.
☐ (Booklet gladly sent in any case; but please check here if not at all interested in considering the purchase of a "Church" toilet seat.)

Name .....
Street .....
City ..... *State* .....

An Old Stable Becomes a Home

(*Continued from page 388*)

forego. And the benefit to the car of being kept warm in the winter is well worth the cost of heating this space.

Of course we insulated the garage walls and ceiling with fire-proof wall board, and covered the door leading into the hallway with sheet iron, not only for our own protection but also to comply with the insurance requirements.

Since we were building a home, we threw economy to the winds. We tiled the kitchen; we ordered all brass plumbing, extra heavy waste pipes and the best fixtures; we laid the best floors, provided for fifty per cent. extra radiation, and installed a furnace with an extra unused outlet lest we should ever wish to add a wing.

Aside from the fact that we would be unable to duplicate the quality of the original material, careful estimates show a saving of $4000 plus the satisfaction of salvaging a wonderful old stable.

Gardens of France

(*Continued from page 357*)

envy of Louis XIV and brought about the downfall of its creator and owner, Fouquet, Finance Minister to the "Grand Monarque".

IN THE eighteenth century, and under the impulse of new ideas many fine old formal gardens were obliterated to give place to others where curved paths, rolling lawns, built-up ledges of rock and specially constructed ruins were supposed to bring the erring soul back to "Nature."

To realize the change which took place in garden designing at that epoch, one should see the estate of Ermenonville, near Senlis. There Jean Jacques Rousseau lived and died, and under his influence the whole valley was converted into a park in the "landscape style" in about the year 1760. Beauty dwells here in the graceful curves of shore and in the massing of stately trees, but Nature has fled. In the century elapsed, she has coyly refused to show herself in these haunts or to reinvest them with any charm.

During the nineteenth century, and especially under the Second Empire, a great many fine gardens were constructed whose style varied according to the taste of the respective owners, and while many of these showed a return to the formal plan, there was a tendency to mix styles and to make experiments, resulting in the evolution of the modern French garden.

In order to see a typical example of the latter, the tourist should pay a visit to the garden of Monsieur Truffant at Versailles, and do so if possible at the end of June when the Roses are at the height of their bloom. The garden is composed of a formal portion, containing a rectangular pool, straight walks, vases and statues; and a portion in the landscape style, with meandering stream, wooded islets and picturesque arrangements of flowering plants and shrubs. The two sections are cleverly hidden, the one from the other by a high terrace flanked with pergolas.

This garden offers the opportunity of comparing the two styles of treatment, and of judging of their comparative merits. Each portion will be seen to have its excellencies, and to present a succession of alluring pictures. Each has its own peculiar charm.

A short drive takes one from the heart of busy Paris to the heart of the wild-wood of the Bois de Boulogne, where lies concealed the estate of Bagatelle, the secret garden of kings. The dainty pleasure house and formal grounds retain their old-time elegance, whilst a modern flower garden and rose garden have been added. The latter attracts, by its completeness and splendor, the lovers of gardens from all the world over. In June and July the aspect of this "Roserie" is sumptuous beyond description, and should not be missed by the traveler. Tree Roses bearing amazing clusters of blooms, are to be seen in profusion, and climbing Roses are ingeniously trained to produce the effect of immense festoons. The name of each variety is clearly marked, which enhances the pleasure and profit of the visit to Bagatelle.

Very near this place lies the modern, formal garden of Monsieur Jules Potin, forming the worthy setting of a stately private residence. It can be approached only through proper formalities, to be described later, but the vision presented by its admirable arrangement and its wealth of flowers will repay any effort made.

Outside of Paris, at the little village of Bourg-la-Reine is the famous rose garden called "L'Hay," open to the public but once a year. This occurs on a Sunday about the middle of June, when Roses are at their best, and the traveler should, accordingly, assure himself of the date and make an effort to see the fine Roses, going preferably by motor in order to avoid the crowd usually in attendance.

A remarkably fine rock garden can be seen at the establishment of Vilmorin, Andrieux & Company, nurserymen, at Massy-la-Verriere, about fifteen miles from Paris. Through business relations with foreign lands the company has been able to gather a rare collection of rock and desert plants, and these they have arranged with remarkable taste

(*Continued on page 394*)

PEONIES

Selected at Rosedale, June 5-20

WHERE you can size up the habits and character of the varieties as to height, color, etc., will assure you satisfaction. This will be our BANNER YEAR, when we expect to have the finest show of our quarter century during which we have tested, selected and rejected until our varieties include only the very best. Moreover, we guarantee these plants true to name and of highest quality.

We have many golden opinions from our old customers, as to both the quality and the price of Rosedale Peonies. Our immense stock this year will enable us to make prices lower than ever. Ask for premium offer of the Best Book on Peonies, also

Send for our Catalog Today

whether you expect to come to the Nurseries or not. You will find it one of the most helpful of its kind.

S. G. HARRIS, *Peony Specialist*

Box A Tarrytown, N. Y.

Real Power Mower for Homes

With the Milbradt Power Mower you cn cut four to six acres of grass per dy in the open spaces. You cn also cut around trees, flwer beds and shrubs closer tn you can with most hnd mowers. Strongly bilt with plenty of surplus pwer assures years of good svice. Easy to operate. A12 year old boy cn run it. No expience necessary.

Has had three years' experience and is satisfied

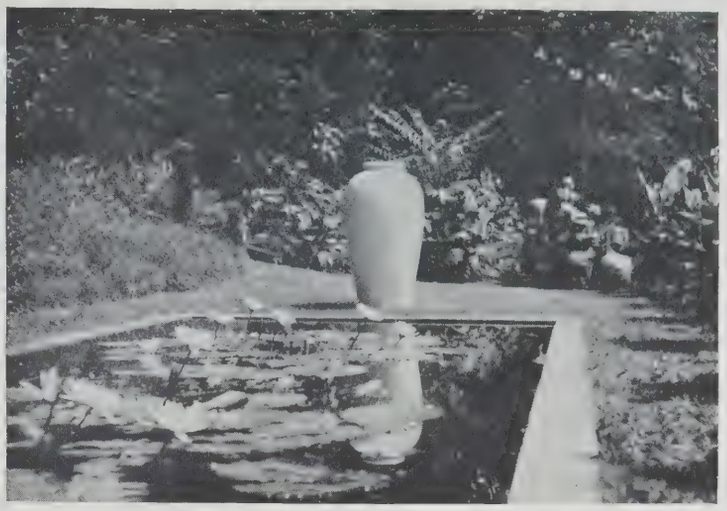
Replying to your favor of June 2, will say that I have used one of your power mowers fcthe past three seasons and it has given me perfect satisfaction. The machine is lit and easily handled and is not liable to get out of repair.

The new grinding attachment you furnished for my machine is a great convenie. The knives can be accurately ground by the use of powdered emery and oil, wch makes a much more satisfactory job than by filing.

Yours very truly,
J. E. Hamilton, Two Rivers, Wis.

MILBRADT MANUFACTURING COMPANY

213 N. Tenth Street *(Established 1895)* **St. Louis, Mo.**



The variety General Pershing has been in bloom practically all summer in the garden of John S. Van Gilder, Knoxville, Tenn.

A Waterlily Pool is the Center Around Which Your Garden May Revolve

No other flowers are so delicate in beauty and fragrance; no other flowers so fascinate the visitor. The whole plan of your garden centers around the Waterlily pool.

Waterlilies in Varied Colors

Few gardeners realize the color range of these unusual plants—from pure white to rose-pink, from the blue of the sky to dark purple. Either of the collections here named will give you a charming display of bloom.

The Pring Trio	The Arlington Trio
Mrs. Pring, pure white.	Marliac White, white with golden center
Mrs. Edwards Whittaker, blue.	Marliac Flesh, soft pink.
Gen. Pershing, light pink.	Marliac Yellow, clear yellow.
One plant of each for $10	*One plant of each for $3*

Complete instructions for making a pool, or preparing a pond, are given in the 1926 edition of

My Waterlily Booklet

which will be mailed to readers of *Garden & Home Builder* on request.

WILLIAM TRICKER

Largest Grower of Aquatics in America

661 Forest Street **Arlington, New Jersey**

North or south, east or west, Waterlilies are always alluring in their beauty and fragrance. Mr. D. B. Fischer, New Orleans, La., is the possessor of this charming garden.

Happiness Follows Every Little Bird

There is something about the intimate confidence and trust of the wild birds that brings joy to the hearts of everyone. Possibly no other living things are so quick to sense the protection and welcome that properly designed houses and shelters afford.

One can watch them with untiring interest as they hop from twig to twig, working and singing the whole day through, ridding your cherished trees, shrubs, flowers and premises of injurious moths, beetles, mites, mosquitos and other insect pests.

Invariably Dodson's Scientifically Designed Houses placed as directed will get the same colony of beautiful Martins, Bluebirds, Flickers or Sweet Singing Wrens yearly. Also Cardinals, Thrushes, Grosbeaks, Mocking Birds and dozens of others will seek your garden if Dodson's Suet Cake in a sheltered feeding station is provided.

Enjoy nature's blessings by helping to preserve the Songbirds.

Dodson Scientifically designed and artistic bird houses are a feature in the most beautiful estates, country clubs and parks all over America.

Mr. Dodson, President of the American Audubon Association making friends with a black capped chickadee.

Queen Anne Martin House

48 rooms for the beautiful Martins who colonize

Scientific porch, pure white, green trim. Cypress copper roof including 22 ft. easy raising pole. House 36 x 26 x37 in. price **$60.00**

Others as low as $18.00

Flicker House

Is a sure lure for these very useful birds.

Flickers are one of the most useful birds, destroying moths, tree pests and principally ants on trees and ground.

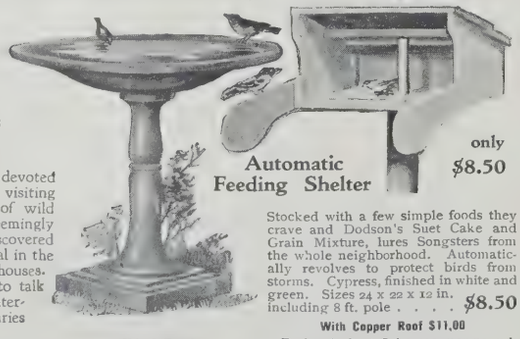
House 26½ in. high by 12 in. in diameter. Only

$7.00

Bluebird House

The happiest and most beloved Songsters. Dodson's Scientific houses satisfy these most exacting birds. Made of oak, finished in white and green. Sizes 21 in. high by 16 in. in diameter with 16 ft. easy raising pole.

Price $14.00



Automatic Feeding Shelter

only $8.50

Stocked with a few simple foods they crave and Dodson's Suet Cake and Grain Mixture, lures Songsters from the whole neighborhood. Automatically revolves to protect birds from storms. Cypress, finished in white and green. Sizes 24 x 22 x 12 in. including 8 ft. pole **$8.50**

With Copper Roof $11.00

Dodson's Suet Cake 40c. per pound; Grain Mixture 10c. a pound; Manchurian Sunflower seeds 25c. a pound.

Why Dodson Houses Win the Birds

Mr. Dodson has for many years devoted his entire time to lecturing, visiting beautiful estates in the study of wild birds all over America. Many seemingly insignificant details have been discovered and patented by him that are vital in the luring of Songbirds to man made houses. Mr. Dodson is always willing to talk before clubs or associations interested in creating bird sanctuaries either private or municipal.

Bird Bath

This handsome stoneware bath is not only an ornament to any garden but is the only one where knowledge of the birds' habits, fears and preferences have been considered in designing a bath that the birds enjoy and use. Complete with 32 in. stand.

Price $26.00

Write for our big catalogue of art stoneware.

Dodson's Scientific Wren House

The Silver Throated Wren is one of our sweetest singers. A four compartment house satisfies their habit of changing nests for each of their three broods. Beautiful design, made of oak, finished in green with cypress shingles, copper coping, comes complete with rust-proof snap on hanger. Size 28 in. high by 18 in. in diameter. Price **$7.00**

Free

My fascinating book "Your Bird Friends and How to Win Them" sent to anyone who loves our beautiful Songbirds. Is full of things you should know. Based on 40 years' study of this most interesting subject. ***Ask about Dodson's Guaranteed Sparrow Trap.***

Order direct from this ad. Dodson's scientifically designed houses can only be bought from:

JOSEPH H. DODSON, Inc.

Mr. Dodson is President of the American Audubon Association

746 Harrison Avenue Kankakee, Ill.

Gardens of France

(*Continued from page 392*)

among boulders and sandy pockets, creating a new landscape with flora all its own.

Near Paris, in a park masked by suburban houses, lies a bit of Japan, where we discover miniature mountains planted with conife tiny valleys spanned by rainbow bridges, and rivulets that flow temple and teahouse, to fall in cascades into lotus pools. The atmo phere of the far Orient is cunningly simulated, and the seclusion je ously guarded by thickly planted evergreens. A gate-keeper t guards the entrance, and none may pass without the proper "Op Sesame!"

AND here it is fitting to tell the traveler lacking personal intr ductions, how he may often gain access to private gardens France, not usually open to the public. There exists an associati called La Bienvenue Francaise created to favor the exchange of int lectual and moral ideas between the nations. A letter and card fr the Garden Club of America, or a letter of introduction from the Am ican Embassy in Paris will procure one the privileges of this associatio At the office of La Bienvenue will be found a long list of interesti private gardens, and the secretary will courteously arrange special a pointments for visits to those gardens most desired.

Through this channel one may gain admission to the Japanese garde and to that of Monsieur Potin, above described, as well as to Vaux-Vicomte. The list of possible gardens is so long as to become an actu embarrassment of riches, and, to facilitate one's choice, we recomme the following, known to be interesting to the gardener: the estate Count Edward de Rothschild, the castle of Dompierre in the Depa ment of the Seine et Oise, the château of the same name in the Depa ment of the Aube, the château of Courence, the estates of Rosney a of Petit-bourg.

Should one intend to travel in Alsace, he should go provided wi a letter to the Director of the Ecole d'Horticulture at Mulhouse, r questing admission to his garden. Going southward, one finds alo the Riviera hundreds of splendid villas, embowered in the opule semi-tropical growth of that favored clime. In the course of tim type of Riviera Villa has come into existence, by the architect general despised, but to the painter an inspiration, and to the horticultur a dream of splendor. The girdles of Nice, Cannes, and Mentone a studded thickly with such villas, which offer to the passer-by tant lizing glimpses of color, over high walls and through barred gates. W would recommend that the traveler, before leaving Paris, apply to L Bienvenue for appointments to visit the following villas, the Eile Roc, the Sylvia at Antibes; the chateaux of Merveille and Vertcoe as well as Bijon at Bastide-Villefranche.

"Beauty Doctors" of the Gladiolus

(*Continued from page 353*)

Before we can pass judgment on the value of any new or old so it is a good plan first to ask ourselves the question: What is the be use of this flower? Does it fit successfully into its particular nich These questions, asked collectively by many enthusiasts, have led systems of classification, to which we need refer only briefly here, get an idea of the characteristics of the principal groups.

THE early classification was based on old types of definite orig and form, rather than on utility. In the evolution of the prese day large-flowered race, the old types have been so intercrossed a blended that these old groupings, into striped Gandavensis, blotch Lemoinei, deeply hooded Primulinus, and little star-shaped Nan no longer apply to the new varieties, except in the case of the Nan which have retained their identity, having been little modified modern hybridizing work. No such elaborate classification has be evolved for these new blended forms of Gladiolus as there is for t modern Peony, Dahlia, or Iris. The simplest classification, and t one the most used at the present day, is into the Large-flowered Grandiflora, and the Primulinus or slender hooded varieties. So like to make a third group, intermediate between these two, called t Prim grandiflora or Medio-prim class, as the English prefer to call the Perhaps a more rational treatment for our purpose is to retain the t generally recognized groups, each of which fills a quite definite place flower usefulness, and further subdivide these along convenient lin

The Large-flowered sorts may be grouped into three classes for o purpose. First, there are several thousand varieties of the stur decorative Gladiolus of commerce. These include the kinds with fo to six flowers open at once, with stiff, strong stems and good lasti qualities, such as we see displayed abundantly all summer at the flori and at the roadside stands. This is a rather inclusive group, and gre advances in it have been made in this country. In fact, we might almost claim it as an American product, for the ideals of the Europe gardeners of the early days ran to a showier, but less useful, exhibiti

(*Continued on page 398*)

The Art of Exterior Decoration

THE idea, that a home should only be beautiful inside, is passe! With the recent innovation in awning designs a new art of *exterior* decoration has been created.

SWANFELDT AWNINGS bring about a delightful transformation in the home's outward appearance—similar in effect to the addition of new window drapes inside. And the soft color tones are so blended in their elusive scrolled pattern, that these awnings become a harmonious part of the architecture and never attract undue attention to themselves. Therein lies their distinctive artistry.

SWANFELDT AWNINGS are available in several beautiful patterns appropriate for every type of home architecture. They can be installed without end pieces if desired. The graceful bronzed scroll supports add a finish to the whole installation.

Swanfeldt Awnings

PATENTED

ALTIMORE—
Jas. A. Nicholson & Son, 310 N. Eutaw St.
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Smith Brothers, 1419-21 Diversey Parkway
Smith-Olson Co., 3842 W. Madison
LEVELAND—
The Astrup Company, 2937 W. 25th St.
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Chas. Glawe Manufacturing Co., 515 E. Herman
ENVER—
Colorado Tent & Awning Co., 1642 Lawrence St.
Schaefer Tent & Awning Co., 1421 Larimer St.
ETROIT—
Detroit Canvas Company, 937 Larned Street E.
ANSAS CITY, MO.—
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INCOLN, NEB.—
Lincoln Tent & Awning Co., 1616 "O" Street
ONG BEACH, CALIF.—
Swanfeldt Tent & Awning Co., 146 American Ave.

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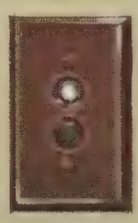

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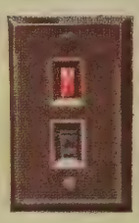

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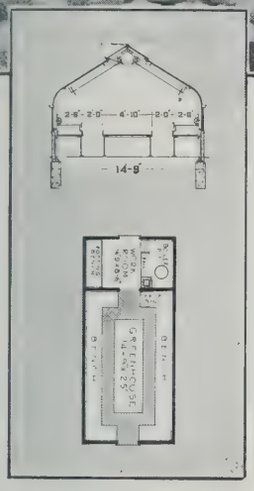

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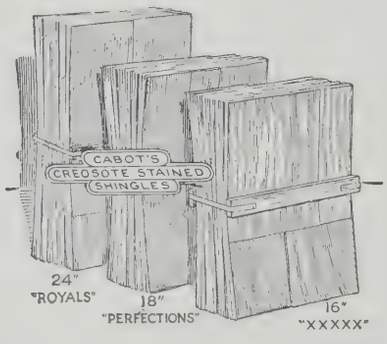

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Cabot's Double-White: Whiter than white lead paint, and two coats cover equal to three.

"Beauty Doctors" of the Gladiolus

(*Continued from page 394*)

type of flower. For show or exhibition purposes, a maximum of displ of flowers at one time seems to be called for. Acordingly, the sho type comprises a more narrowly defined group than does the co mercial type. It includes sorts with extremely large flowers, preferab on long, close-ranked floriferous spikes, with many huge flowers op at once. To take the judges' eyes, they must make an imposi display at the hour that they are judged. Endurance, substance, a dependability are of less moment here than is display value. A thi group may be made to include what we may term the fancy varieti sorts which have special merit because of some peculiar feature, su as ruffled, notched, or oddly shaped flowers, and ones of striking a unusual markings.

The Primulinus, because of their graceful, slender habit and prett hooded bird-like blossoms, are specially useful where beauty of form a delicate coloring are preferred to heavy masses of bloom. For t present, we may divide these into two classes, the Large Prims and t Miniature Prims. The Large Prims may have more rounded flowe than the type, frequently less hooded also, but retaining the slend grace inherent in the group, and the wide spacing of the flowers on t spikes. Without these traits, they would no longer be useful in t same way as are the Primulinus, and would no longer be entitled to so classed, even though derived from Primulinus strains. The sm Primulinus, with slender, distinctly hooded blooms, rather few in nu ber and widely spaced on the stems, may be classed as the true Miniature Primulinus, in which small size is desirable. Their ch value is in their light, airy slender grace, not in their mass display; a are especially useful for such purposes as bridal bouquets, dainty lig decorations for the breakfast or luncheon table, and for low bow One of the merits of the Primulinus is their range of soft delicate shad of coloring, and accordingly they should be judged more severely color than any of the other classes.

The Nanus or Baby Gladiolus group is another distinctive typ which need be only briefly mentioned here, as it has entered scarce at all into the breeding work of the modern hybridizers. C. G. v Tubergen of Holland has been the chief modern exponent of these agre able little miniature Gladiolus in recent times, and he has produc some interesting novelties in them. They not only have small, slende artistically irregular star-shaped blooms, but their arched, swayi stalks and graceful poise of the flowers add to their attractiveness f low bowls and similar classes of decoration. A group of spring-plant early blooming sorts of this general type, combined with the vigor a hardihood of the Primulinus would be a distinct acquisition. But th is looking into the future, and for the present, these need not furth concern us.

The French, English, Dutch, German, Australian, and New Zealan hybridizers have done much to develop our modern sorts. But no have done more for these special favorites of ours than have the Ame icans, both in Canada and the United States. Wonderful new creatio in all colors, both brilliant and delicately shaded; lily-shaped, hood ruffled, or even fringed; large, medium and small, are appearing as if b magic. Of the five thousand or more named varieties in this countr no one person has seen them all, and scores of new varieties are bei named yearly.

THE FRENCH TYPE

SO FEW of the foreign varieties have made headway in this count that it is comparatively easy to survey the outstanding ones, a these will be considered first. Some of the greatest advances in t history of cultivated Gladiolus have been made by Lemoine in Franc His Lemoinei and Nanceanus varieties, with their bright colors a vivid throat markings, may be grouped in the fancy class and have be his principal contributions. The two best known deep purple v rieties, BARON JOSEPH HULOT and HELIOTROPE, are old Lemoi introductions. Others of his blotched Lemoinei sorts are JEAN D TAILLES. salmon with a deep maroon throat blotch on each low petal; and MME. MOUNET- SULLY, creamy white with carmine blot surrounded by a primrose yellow border. This last is a poor prop gator, but a beautiful flower, having the fine rounded petals and wi open blooms which characterize many of Lemoine's blotched varieti EUGENE LEFEBVRE, bright pink with creamy throat thickly dott and spotted with amaranth, is one of his speckled throated Nanceanu sorts. GENERAL LANGLOIS is another of the spotted throated sort deep rose in color, and it opens eight flowers on the spike at onc making a bright showing. These and most of the Lemoine varieti in this country are old sorts, but are fully the equals of the newe introductions in size and substance of flower. The illustration on pa 353 shows some of the old markings. They are, from left to rig Roi Albert, smoky old rose; Pasteur, of a similar but deeper color wi velvety throat blotch surrounded by a light halo; Emily Aubrun, a ma sive flower of a coppery shade with a darker throat; Pelletier d'Oi a greenish flower with purple spotted throat, evidently a hybrid deriv from the wild species Dracocephalus; and Paul Chambon, a light re similar in color to Mrs. Francis King, but with a dark blotch.

(*Continued on page 404*)

LUTTON V-BAR GREENHOUSES

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Hearthstone Editor's Chat

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This department is for all of our readers. Each Booklet listed may be had upon request. Order by number only and as many as you wish.

Address: Hearthstone Editor, Garden & Home Builder, Garden City, N. Y.

Taking Care of Rugs

IN THE question of rugs for the home, there are but two phases to be considered: first—the selection (and this means beauty, size, color, quality, cost); second—care after laying on the floor. In the matter of selection, there is one point that should ever be borne in mind: *buy as good a rug as possible;* seek quality above all else. But—if an inexpensive rug *must* be selected, it is comforting to know that the lowest priced rug in the world can have several years added to its life if given the proper care. This same care will all but double the years of service of a well-made rug of high quality.

The average person with the words "Oriental rug" floating through his mind thinks of such rugs as lasting through the centuries. Therefore *his* rugs—provided he pays enough, should wear a lifetime too, and become priceless heirlooms! He overlooks entirely the care that has always been given these carpets of the Orient. Some of the very finest are never used on the floor at all, but are thrown over divans and pillows. Moreover when the Oriental does use his rug as a floor covering, his feet are not shod as are ours. Either his shoes are removed at the door of his house or they are as soft as bedroom slippers. Thus he does not track in grit and dust—those deadliest enemies of a rug! Neither can he pound his carpet down to be worn out by the friction between the hard floor and his hard heels.

In caring for *his* priceless rugs, the Oriental does not sweep them fiercely with a stiff broom; nor hang them over the line and beat them! He does not pick them up and violently shake them, either. If and when he brushes his rugs, he is careful to brush the pile only one way.

It should be well understood by every owner of a rug that when such a carpet is beaten, the binding is apt to be loosened, the rug dragged out of shape and the threads broken. Many a hole in a rug has been started by a too-strenuous housewife. If a rug be shaken violently, the fibres are first bent suddenly in one direction, the warp threads given a sudden twist in another, while the end of the rug snaps like a whip lash. The threads of a rug are not made to stand such treatment and they break, while the ends of the rug fray out. Where rugs have sizing on their backs, it is put there for a definite purpose—to stiffen and protect the rug. When violently shaken this backing is very apt to be broken.

The modern machine-made rug is woven carefully and in a mill where there is the proper moisture in the air. When these rugs are taken into a home, they should be allowed to lie on the floor for about three weeks without being cleaned to permit them to become acclimated. This is the advice of a prominent manufacturer of high class rugs of many varieties of weaving. In all new rugs there is apt to be loose "fuzz" and frequently, the purchaser seeing this fuzz will decide that it indicates poor quality. This is not so, for this fuzz is but the loose ends of the yarn that have fallen back into the pile when the rug was sheared at the factory to make the pile of even thickness. If then a new rug is allowed to remain untouched for about three weeks, this fuzz will gradually work to the surface without having it violently brushed out as is so frequently done.

In any case, this *should not* be removed by a broom. A vacuum cleaner is the best utensil to use in caring for a carpet or rug. Next in serviceability comes the carpet sweeper and at the very last comes the broom. A broom can not and does not thoroughly clean a rug and, used with the force usually expended in sweeping, the rug is pounded down against the floor by the harsh broom straws to be literally ground between the upper and nether mill-stones. No wonder it wears out!

AS WE have said the worst enemy of a rug is grit, carried in on the shoes. Grit is inevitably carried into every rug on the modern floor. A broom can not take this grit out. On the contrary it forces it even more deeply into the rug. Here it stays to be crushed by heavy heels and furniture against the threads of the rug which it cuts and breaks. Another point: if one would give their rugs added life, they should be cleaned frequently, every day if possible with a carpet sweeper and the vacuum cleaner used at least once a week and oftener if it can be managed.

In cleaning a rug, it should be remembered that the pile of all rugs has a general direction or "lay." Where the pile is long, this lay will develop as it is used and it is important to "train" this in one direction. If the pile be brushed against this natural lay, or brushed first one way and then another, this tends to break the strands of yarn off at the body of the rug. If the rug be of wool yarn (and this means short fibres) these short strands are often loosened, gradually dropping out leaving bare spots where only the warp shows. In a figured rug, the greatest beauty is secured if the rug is placed so that the lay of the pile is *toward* the strongest light. In single tone rugs, spots or shadows are bound to appear. This shading may be greatly minimized if the lay be all in one direction and *away* from the strongest light.

In cleaning with a carpet sweeper, this lay of the pile should be considered. As a rule a carpet sweeper is used in all directions, up and down and crossways, rubbing the pile first one way and then another. If this is done, the result may actually be that more damage is done than if a broom had been rightly used on it.

LARGE rugs should never be hung up on a line. In lifting them, there is always a heavy strain on some part of the rug and threads are apt to break. In lifting and pulling it up on the line there is also the danger of bending some portion of it at a sharp angle which will break the backing.

Where the housewife has no vacuum cleaner there comes a time when the grit simply must be taken out of the rug in some way and there is one way in which this may be done with comparative safety. The rug should be laid on a soft grassy spot pile down and a rattan beater used. These beaters have a wide surface which distributes the force of the blow so that no damage is done. The entire rug should be gently beaten with this, then the rug turned over face up and beaten again. In this way the grit and dirt in the rug is brought to the surface where it can easily be removed by deft, light strokes with a brush or—if absolutely necessary—with a broom used very carefully. Great care should always be used in taking any rug up for cleaning. It should not be folded or bent but should be carefully rolled and at no time should there be any strain on its threads because of lifting; this, of course, applying particularly to large, heavy rugs.

To further give added years of service to a rug, each rug should have a pad under it to decrease the amount of friction between heels and floors. Pads for rugs in all sizes may now

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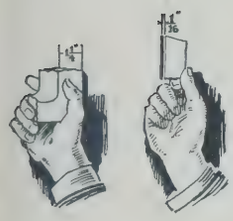
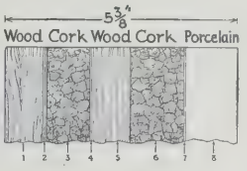


Jewetts are lined with SOLID porcelain, 1¼ inches thick. All other so-called "seamless," "one-piece" or "cleanable" porcelain linings are made of thin sheet metal coated with baked enamel. That's why Jewett Cabinets never dent, chip, peel, or rust out and why "they last a lifetime."



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(43)

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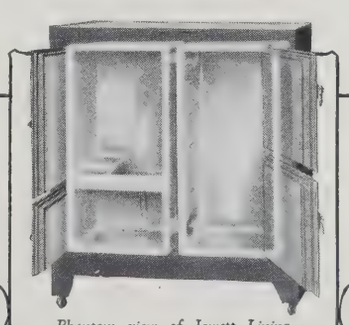
Jewett Cabinets can be used with any type or make of electric freezing unit.



Phantom view of Jewett Lining—cast in one piece of solid porcelain—with full rounded corners—without crack, crevice or seam.

JEWETT
REFRIGERATORS

be purchased, and they are as easily cleaned as are the rugs themselves. They are not only easily handled and cared for but will be found both moth-proof and sound-deadeners as well. A rug laid over these pads can be depended on to wear much longer and to give at the same time a sense of luxury as they sink beneath the tread.

Another point in the care of rugs is the matter of ever washing them. If a spot has become soiled, only the purest of soaps should be used in cleaning. Never should there be strong alkaline soaps used or strong soap powders. It is always best, in fact, not to attempt to clean the rug oneself as no one can be sure just what effect either water or soap may have on fibres and color. A good rule to follow is to send the rug at once to a reliable cleaner. This same cleaner will also be able to re-size any rug that has lost this protective backing. Since many of the best modern rugs are now made without this sizing, this point does not have to be taken into consideration as much as formerly.

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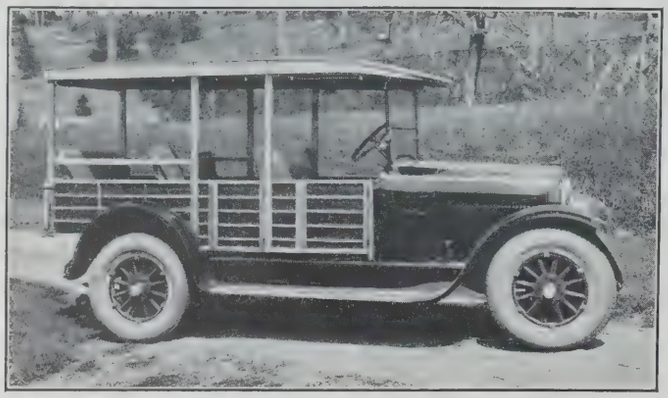

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"Beauty Doctors" of the Gladiolus

(*Continued from page 398*)

Vilmorin is another French Hybridizer who has produced some fine spotted and blotched varieties, of which smoky old rose DESDEMONE, with its large amaranth blotch bordered ivory white, is the best known. Brunelet, De La Borde and several others have also been active, but few or none of their sorts have been pushed in America. One of Gravereau's which has gained some popularity here is OBELISQUE, a delicate creamy white.

One reason why the French sorts have not been more widely disseminated in this country is that they are a bit uncertain in their behavior with us. Most of them can be grown well along the seacoasts, but many are ill adapted to our warm, dry summers, are poor propagators and fail under field conditions of culture. Reports of them from the Middle West are particularly discouraging. With careful protection from drying winds, they make handsome flowers for the fancier, but only a few of them, such as Desdemone, Baron Hulot and some others are rugged enough for general culture.

THE DUTCH TYPE

WE THINK of Holland as the land of bulbs and flowers, and Hollanders have done much to advance the Gladiolus to its present state. Their passion for neatness and regularity, and their keen sense of commercial values show strongly in their productions. Velthuys has produced some strong, vigorous sorts. Vivid scarlet LIEBESFEUER and purplish red GOLIATH are both old varieties of high merit. His FLORA is likewise one of our best yellows, though the spikes sometimes kink a bit. Heemskerk's flesh colored LE MARECHAL FOCH resembles America and is a larger, showier flower, but it is of rather soft texture and the plant has not the rugged constitution of our AMERICA. His violet purple JACOBA VAN BEIREN is a new sort of moderate size and pretty coloring. Van Zanten's salmon PRINCE OF WALES has many admirers, as has also Veltuys's pink HALLEY. Both are handsome flowers, and the plants of both have similar defects. Like many early flowering varieties, their bulbs are quite susceptible to diseases. The Hollanders have also produced some fine Prims. Jonkeer's yellow SOUVENIR, Krelage's SCARLETTA and Grullemans' SALMON QUEEN are all good. Grullemans in particular has gone in for Prims.

THE GERMAN TYPE

THE outstanding Gladiolus producer in Germany is Wilhelm Pfitzer. He has produced many fine large clear-colored whites, yellows, reds and particularly blues. SCHWABEN is one of the standard commercial yellows. EUROPA, introduced in 1911, is one of the handsomest clear whites when well grown, in a congenial moist climate with good culture, and is still the measure by which the newer whites are judged. Pfitzer is perhaps best known among fanciers in this country for his lavenders and blues. BADENIA is a handsome, wide-open bluish lavender—hard to grow and a miserable propagator. VEILCHENBLAU now gives promise of better success, and is of deeper, richer color. It and the paler colored FRAU VON KONIJNENBERG are both handsome, but quite new in this country, and their future here is not yet certain.

There are several handsome new European Gladiolus, but recalling the fussy behavior of so many of the sorts from the moist climate of western Europe, one hesitates to recommend them. Many of these are well suited to the carefully tended and protected garden of the summer estate along the seaboard. Their future for general culture in our dry sunny climate is in many cases doubtful.

THE ENGLISH AND AUSTRALIAN STRAINS

NOTABLE exceptions to this are some of Kelway's English sorts. His productions are noteworthy for their strength and vigor, and his GOLDEN MEASURE and white PURITY perform well under most varied conditions. Of the products of other English Gladiolus hybridizers, practically none are known in this country, though we might try with profit some of Mair's tall show varieties, and some of Churcher's new Primulinus hybrids.

The varieties from dry and sunny Australia would seem to have greater promise for this country, though we must remember that the center of production there, on the coast of Victoria, is in the mildest and moistest part of Australia. There is a lure of distant places about the very idea of new Gladiolus from Australia. We think of boomerangs, Eucalyptus and kangaroos, and look for strange and unusual things from the Antipodes. But we must not forget that the foundation stock of Gilbert Errey, the best known breeder there, came from England and America, from the same sources as our own of to-day. The Australian has much of the sanguine, expansive nature of the Californian, and goes in for size. Errey's Gladiolus are many of them fine showy exhibition sorts. His large, dark crimson CHANCELLOR and creamy white KING PEARL are both upstanding sorts. LEOLIN is an exquisitely delicate soft pink, deeper toward the edges. BRENDA is a slender sort, delicate pink with scarlet blotch. Since the quarantine has invested these and other foreign Gladiolus with the charm of the inaccessible, we will probably hear a lot more about them.

This first article will be followed by stories of the achievement of Gladiolus Pioneers in America. In the preparation of this material both author and reader happily profit by the association of Mr. William E. Clark.—ED.

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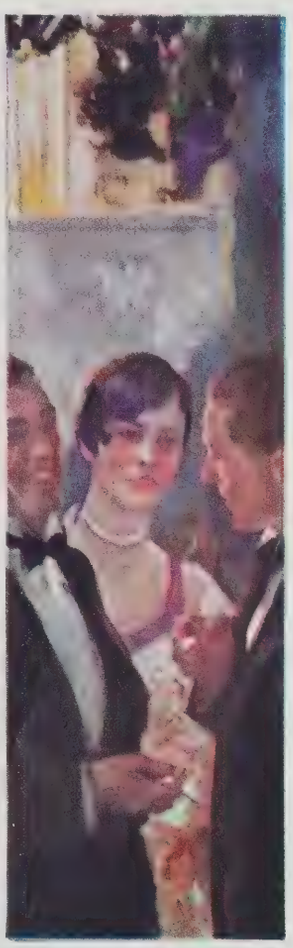

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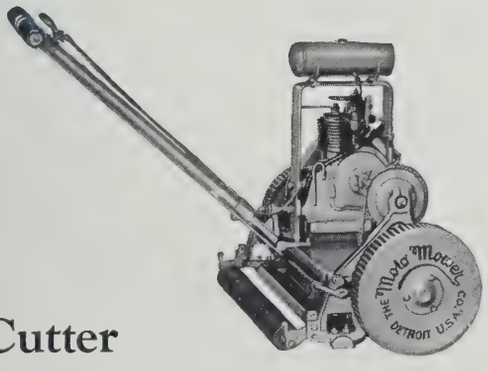

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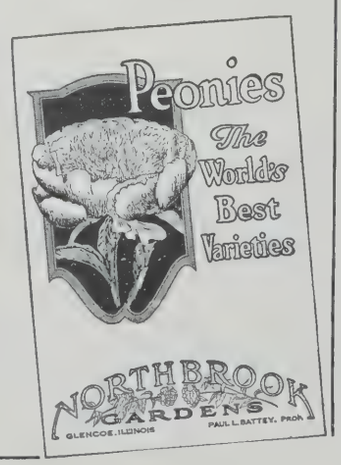

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Paul L. Battey, Prop.
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The Modern American Rug

(Continued from page 364)

inexpensive because not closely woven, has but little wool, a very thin pile, and jute used in its backing. A cheap Axminster can be told by looking at its back which appears decidedly ribbed. These are the three most moderate priced rugs.

ANOTHER point to remember in looking at a rug is that as a rule Tapestry and Axminster rugs are sized on the back while the best Wiltons and Chenilles are not. The Axminster weave will permit a rug to be rolled lengthwise, but not crosswise. For this reason for wearing qualities, an Axminster should if possible be laid so that the bulk of traffic will be across it or *with* the weave rather than lengthwise and against it.

In the class of medium-priced rugs, we find a better grade of Axminster, Brussels rugs, and the cheaper grades of Wilton and Chenille. Finally we come to the three best rugs of all, high-grade Wiltons and Chenilles and the best Axminsters. Each is good in its own way, but nothing surpasses the Wilton. In a Wilton rug, the very manner of its weaving demands a certain grade of yarn, worsted usually being used. Because of the weaving spoken of above, there is always four or five times as much wool in the body of a Wilton rug as there is in the actual pile itself. That fact alone proves the value of these rugs. In the Wilton rug, all its colors may be seen on the back. Tapestry or Velvet rugs do not have any colors showing on the back; this is a sure test. Sometimes you see a rug described as a "Wilton Velvet." There is not and could not be such a rug, as a Velvet is woven on one kind of loom and a Wilton on an entirely different type.

In the highest priced Axminsters we can find rugs woven in such a way that they seem to all intents and purposes Oriental rugs, and this is true also of some of the best Chenille rugs. There are also on the market various rugs woven by special processes which, while frankly American-made, are almost perfect reproductions of Oriental rugs and yet their price is within the reach of the average buyer. These have no sizing, can be cleaned and mended exactly as can an Oriental rug, and, moreover, they have the irregularity of design and border that we find in the hand-made rugs of the Orient.

While in the weaving, the ways of preparing the wool and dyeing have been found almost impossible to improve upon, there is one factor in modern weaving that makes for unusual beauty and that is the width in which these rugs may be woven. With these new machines a seamless rug up to 30 feet in width is now possible and since a seam in any rug or carpet means greater opportunity for wearing thin at that spot, these seamless rugs of course mean additional years of service.

Seamless Wilton rugs may now be had 9 feet wide; Axminster, Tapestry, and Velvet rugs, 15 feet wide, while Chenille rugs are now being made in every width up to 30 feet. The Chenille rug may in fact be called a custom-made rug as it can be woven to any shape or pattern, oval, square, round, indented for fireplace or pillar, with, if desired, a border that follows each curve and indentation. Chenille rugs may be had in one, two or several tones and with or without design.

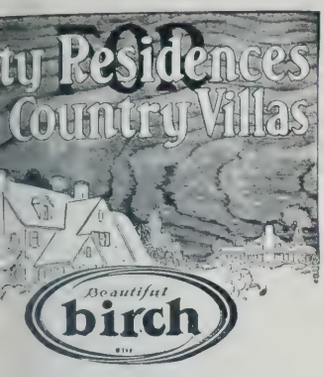
For some time past, there has been a demand for plain or one-tone rugs. Every footstep, every chair, however, was found to leave a mark and so distressing is this that the era of the absolutely plain rug is passing and in its stead comes a demand for softly mottled, indistinctly designed rugs in two shades of the same color. These give all the pleasing restfulness of the plain surface with none of its defects.

UNDER every rug, whether of high or low degree, there should be a padding used. There is such a carpet-cushion now on the market that is most inexpensive and which will make even an inexpensive rug not only wear longer but seem as deep and luxurious as a more costly one. In every case, its use will double the life of any rug. The name of this pad is Ozite—a soft cushion of sterilized hair that absorbs the hard, pounding wear of hard shod heels. It never loses its springiness and comes in all standard rug sizes and in varying degrees of thickness from $\frac{1}{4}$ inch up to $\frac{3}{4}$ inch. One of its best features is that it stays flat on the floor and does not buckle or creep.

In buying any rug, it will be well to keep this advice of a prominent manufacturer in mind: "If cost is a determining factor, it is far better to buy the best grade of a cheaper quality of rug rather than the cheap grade of a high quality, even though the price be the same."

What is the approximate cost of various rugs? Let us again quote this manufacturer: a good Chenille rug costs about $10 or $12 a square yard; a Tapestry or Velvet size 9 x 12 should not exceed $45 or $55; a good Axminster, of the same size should cost about $95; while a Wilton of this size should bring from $135 to $150.

To-day a number of manufacturers are putting out individual variations which are called by distinctive names because of some special design or quality. These are Karnak, Persian Herati, Sarouk, Imperial Ispahan Wiltons, Saxony rugs, Anglo Persians, Bengal Orientals, etc., each one the result of particular selection of yarns, especial beauty in design and the highest type of weaving so that such rugs will probably average a little higher in price than those quoted. But they are so beautiful, so well made, so durable, so rich in color and of such fine texture that they are worth every dollar invested in them.



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Frivolous Kitchens

A. Louise Fillebrown

WE HAVE always considered it necessary in building and furnishing our "model kitchen" to make it as suggestive as possible of the glittering white efficiency of a hospital. To our minds white paint and tile mean cleanliness, and of course our kitchens must be clean and spotless. However, color may be just as clean as white. There is no reason from the standpoint of efficiency or sanitation for a white kitchen. It is merely a habit.

On the other hand when we consider the time most of us spend in the kitchens of our homes, isn't it foolish not to make them as cheerful and homelike as possible? We would never consider living in a pure white bedroom. Our sunporches and living rooms, furnished for comfort, are full of color.

There are many of these frivolous kitchens now. You will see them in lovely homes, and pictured in the magazines, but I will show you how one of the old type was transformed into a pleasant friendly little room where it was a pleasure to wash dishes. It had been white of course—white painted walls and woodwork, gray linoleum, white tables and chairs. The stove was one of the blue, black, and white variety and was the only bit of relieving color in the room. The sun poured into the southern windows, and the white window shades did little to temper its violence. Even the electric lights, bright from necessity, were unshaded, though they did have the clouded bulbs.

The worker in this kitchen was of a rather nervous temperament and the suggestion that the proper use of color can do much to save nerve strain sounded logical to her, so she "did over" her kitchen before the dreaded hot weather came. For her plan she chose colors that would be cool—the soft spring greens, grays, and French blues. These colors were not dark, or dingy, for of course cool colors do not necessarily have to be dark colors. To make it cheery and inviting some brighter tones must be added, and here she found that yellow, tiny touches of red-orange, and as contrast a little black, were charming. Her plan of decoration was as follows:

FLOOR: The worn gray linoleum was replaced by one with a gray and green block pattern, with black lines of intersection suggestive of cement. The pleasing pattern, though not too definite to be restful, made the floor surface interesting. The fact that it included the same colors as the rest of the room added unity to the scheme and eliminated the large area of cold gray color that had been harsh and repellent.

WALLS: On the walls was spread a wallpaper far from our usual idea of kitchen design. Instead of the imitation tiles we have been accustomed to, she used a gay little floral pattern suggestive of the old fashioned calicos of our childhood days. It had a small flower in bright yellow, orange and blue, with tiny green leaves, scattered close together over a light green ground. After the paper was hung it was treated with two coats of white glue size and two coats of white waterproof varnish. This did not change the color, but it did give the walls a high gloss finish which is practically waterproof. Back of the sink or the stove it was possible to scrub away spots with soap and water as effectually as from enamel.

WOODWORK: The woodwork was painted the same green as the background of the paper. Over the paint was used two coats of the waterproof varnish to make it more durable. It is wise to paint woodwork in such a room the same color as the background color of the walls if you wish to counteract the confusing effect of many doors and windows. The broken lines lose their prominence, and the room is less cut up.

WINDOWS: The white shades were allowed to stay, but over them were hung gay little ruffled curtains of green voile with the 3-inch ruffle of French blue. These were tied back at either side, but they covered enough of the window to temper the sunlight, and if necessary they could be dropped over the entire window. Voile washes easily and though in time it will fade, it is easy to dip these thin curtains into a soap dye and bring the color back again.

FURNITURE: For the sake of variety the chairs and tables were painted French blue, and trimmed with lines of yellow. In some places a very little black enamel was added, such as a small line at the edge of the yellow trim, or the ridges on the rungs of the chairs, and at the back. There were little touches of black in the wallpaper design, and the center of the rosettes that finished the tiebacks of the window curtains were black also. This all carried out the plan of the black lines in the linoleum and made the color scheme more balanced.

LIGHTS: There remained only the glaring electric lights to soften. It was necessary to keep these bright, since the room needed clear, well diffused light, yet to soften the harshness of the white bulbs she wished to cover them in some way. Wire frames bought at the ten cent store were found to fit over the bulb at the top, and the little shades had a spread of about 8 inches at the bottom. Over these frames she fitted pieces of the wallpaper, and bound it top and bottom with black wool braid. The kind that used to be called skirt braid. When finished the shades were painted with two coats of white shellac. This made them more serviceable, and gave the light a better glow. The light through the gay colored paper was pleasing yet it was not obstructed sufficiently to allow any dark corners.

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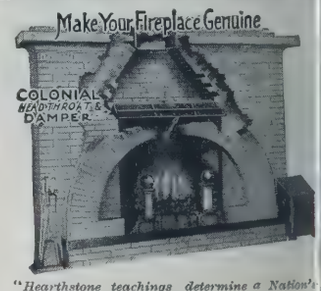

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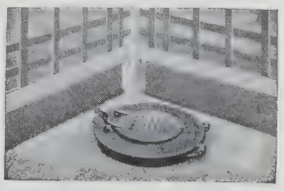

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M. G. Kains

AS A SUMMER vacationist who usually cannot get to his country home before the first of June, nor stay much later than Labor Day, experience has taught me that I must either forego the growing of some of my favorite vegetables or else be willing to meet failure without regret.

The fact is I am confronted by conditions that simply assure failure in more than ninety percent of the attempts to grow certain kinds of vegetables; therefore I adapt my gardening and by so doing I save time energy, effort, money and disappointment.

Much as we enjoy garden Peas I can't grow them because the seed must be sown early in the spring when the ground is cool and moist. If sown during warm weather it will sprout poorly, if at all, the plants that do grow will merely eke out a miserable existence and bear little or nothing but leaves. Other short season vegetables whose seeds must be sown under similar conditions are Fetticus (or Corn-salad), Mustard, Garden Cress (or Peppergrass), Spinach and Early Turnips. Even Lettuce and Radishes are likely to prove disappointing unless "summer varieties" are selected and unless the soil is kept moist and cool by irrigation or by partial shading. By the time I arrive it is also too late to set out plants of Kohlrabi, Broccoli and Early Cabbage unless under partial shade. For this reason and also because the crops would not reach maturity during my stay there is no use sowing seed of Parsnip, Parsley, Celery, Endive, Kale, Leek, Salsify, Scorzonera, Rutabaga, Onion, or Fennel, or setting out plants of Brussels-sprouts, late Cabbage or Cauliflower. As there is no one on whom I can rely to care for such crops as Asparagus, Rhubarb, Sea-kale, Dandelion, Globe and Jerusalem Artichoke I cannot have them.

Before discarding all the above, however, some reader may want to ask if it is possible to provide conditions under which some of them may be expected to succeed fairly well. It is. By making some of the soil extra rich in decayed vegetable matter, such as rotted manure, leaf mold and disintegrated sod, one can increase its water holding capacity and therefore also increase its coolness. By covering this area with lath screens or "factory cotton" supported on a framework well above the normal height of the fully matured vegetables to be grown beneath them, he can both reduce the evaporation of moisture from the soil and keep the plants themselves cooler and therefore make them more succulent. Also by irrigating during the evening with one of the "overhead" systems he can assure an abundant supply of water regardless of whether or not the weather man turns on his faucets.

The vegetables that could probably fail when planted late in the open ground but which would most likely succeed under these artificial conditions and reach edible maturity are Cress, Mustard, Lettuce, Radish and Onion. Others that would be benefited and which would surely do better than in the open ground are Globe Beets, Chard, and forcing Carrots.

BUT supposing we don't want to go to the trouble of preparing such a special bed, what vegetables still remain for us to choose among? Some of the choicest! Some which would probably fail if sown or planted much earlier!

Though the time mentioned (June 1 to September 1) may be a little short for Climbing Beans, both ordinary Pole and Lima varieties, yet by choosing those that mature most quickly I may have as many as I wish. As for Bush Beans, both wax and green podded kinds, I can make sowings at intervals of a week or longer from June 1 to July 15, and yet have even the last sown yield its pods before we leave for our hibernating quarters.

There is ample time for even the slowest growing Sweet Corn such as Country Gentleman and Stowell's Evergreen, and at least a month in which to make successional sowings of Golden Bantam and other choice quick-maturing kinds—the best ones to choose for a vacationist's garden.

Seed of Watermelon, Cantaloupe, Squash, Pumpkin, Cucumber and Vegetable-marrow should never be sown before the middle of May in the latitude of New York City or farther north, nor plants of these vegetables transplanted from coldframes to the open ground until after all danger of late frost has passed—about June first. This last date is not too late to sow seeds of any of these splendid vegetables, though the Pumpkins and Winter Squashes may not reach full maturity before the end of September.

We must not forget the Tomatoes, Eggplants and Peppers, all of which must be started weeks before being planted in the open ground. Conditions are exactly right for them by the time we arrive on the scene. We always have an abundant supply.

Finally we come to Gumbo, or Okra, which plays such a prominent role all through the South in chicken-gumbo soup and other delectable Southern dishes. Regardless of declarations that "we can't grow it in the North" I have repeatedly done so. It is as easy to manage as Bush Beans or Sweet Corn and when sown at the same time as the earliest of these vegetables will give abundant pods beginning in late July or early August and continuing until killed by frost.

HAVING avoided the crops impossible to grow under summer vacation conditions and limited our choice to those specially adapted thereto, the next thing is the growing.

Preparation of the ground, sowing and cultivating are the same as under spring conditions, except that special effort should be made to conserve the maximum of moisture in the soil by harrowing immediately after plowing (or raking immediately after digging) and keeping the surface loose, even powdery, by weekly shallow cultivation until the plants have full possession of the ground which they shade well between the rows. This will reduce the loss of water by evaporation and thus benefit the plants.

Usually it is wise also to sow the seed somewhat deeper than when the soil is more moist, and always to firm it well in the ground—the smaller seeds by pressing the earth with the flat blade of the hoe, the large ones by tramping with the feet. The larger seeds such as Beans, Corn and Beets may be soaked in water twelve to twenty-four hours before planting as this helps give them a quick start. Unless the ground be moist these soaked seeds must be well firmed as just suggested. After the firming the immediate surface must be scratched loose with the rake to check evaporation.

For the summer garden, stable manure must be used with great caution. If it is fresh and full of straw it is likely to do more harm than good because there will not be enough water in the soil during summer to make it decay and it will merely help to dry out the ground and thus interfere with the germination of seeds and the growth of the plants. The best time to apply it is at the close of the season (unless a cover crop is sown as suggested below) digging it under after the crops are harvested. Thus it will decay during the fall and be brought to the surface the following summer when the crops then sown will easily get it.

Dry pulverized manures (sheep, cattle, poultry or horse) may be scattered on the surface after harrowing or rough raking and then raked in finely. So may the animal fertilizers such as ground bone, tankage and dried blood. All of these may be used freely without fear that they will damage the crops if accidentally applied too liberally.

The chemical fertilizers however must be used with caution to avoid, first, getting them on the foliage because they would burn it, and second, in too large quantities at a time. It is a good plan to apply these strong chemicals (phosphoric acid, soda nitrate, ammonium sulphate, etc.,) at the rate of a handful to three feet of row scattered over a strip one foot wide, the application to be made before the row is laid off and the material to be raked in before the seed is sown.

A second application may be made after the plants are four to six inches tall. This is better than to give an amount equal to the two dressings all at one time, especially in the case of soda nitrate, because being highly soluble much of this fertilizer might be washed out of the soil before the young plants could be benefited by it, or it might form so strong a solution that the plants might be injured or even killed.

Where manure is scarce one thing that may be done to improve the soil is to scatter a mixture of Crimson and White Clover seed after the last cultivation of the vegetables (in July) over the whole garden. The Clover plants will make a good growth before winter (which will probably kill the vegetables but not the Clover), and the two will form a mat of dead and living plants which will tend to reduce weed growth in the spring and also to add much valuable vegetable matter to the soil when turned under before sowing the following season's crops. An ounce of mixture will be a fairly liberal application for two hundred square-feet.

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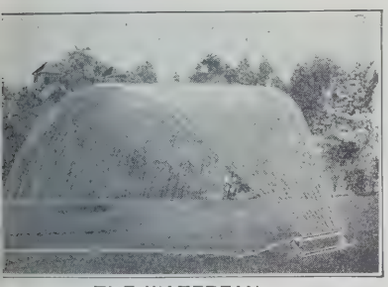

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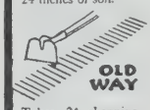

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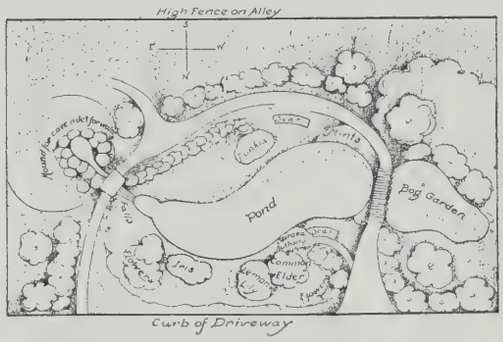
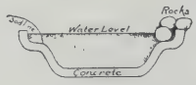
The Little Naturalistic Pool

(Continued from page 352)

The soil for the Lilies should consist of two parts of old dry cow manure, two parts of good loam and one part of sand, all well mixed, and can be placed directly in the bottom of the pond or in boxes. I prefer the latter method as it simplifies the cleaning out process. In any event the water should be at least six inches or a foot above the top of the box which means that the pond should be approximately two



Sketches showing construction and general layout of the little naturalistic pool pictured on page 352



feet deep. I have found it a good plan after the Lilies are planted in the boxes of soil as described to cover the surface with an inch of sand or gravel which will prevent small particles of manure from rising to the surface as well as discourage the fish from rooting in the boxes.

THE varieties of Lilies to select from is large and will be somewhat difficult for the beginner. One should bear in mind that the tropical sorts present more difficulties for the amateur than the more hardy sorts of the north. Most people have admired the large leaves of the Victoria in some park but one must bear in mind that they require a temperature of 85° all the time and an artificial heating plant is necessary until the heat of summer arrives. There is no blue Waterlily that is very hardy and unless you are prepared to take care of the more tropical sorts, you had better pass this up also. The selection should be made from the hardy Nymphaeas which come in whites, pinks, and yellows. The leaves are all floating and the flowers are borne profusely on or near the surface. The Lotus is much coarser and both leaves and flowers stand up out of the water. The seed-pods are quite unique in the Lotus which, however, should not be included unless the pond is large enough to accommodate several kinds. All the Lilies should be planted in clumps, the same varieties together, but not so thick as to eliminate open water spaces because reflections are among the chief attractions of the water garden.

There are, of course, other aquatics besides Lilies that add interest and beauty to the pond. The Umbrella-plant harmonizes and gives a suggestion of the tropics. Pickerel-weed is very hardy and fits in along the edge. The Water-hyacinth is a floating plant and while a nuisance to navigation in southern rivers yet it is a novelty in the small water garden of a northener and should also be included. The Water-poppy is quite an attraction also, having floating leaves and yellow flowers, but is quite tender and will not stand the northern winters.

The plant life around the pond is important as a setting. Forgetmenots will thrive along the edge and be very appropriate there; Lemon Lilies, Funkias, Iris, the Mints, and Lobelia will each find an appropriate place along the bank. Do not plant the bank too solidly as open vistas break monotony and give a sense of distance to an otherwise small area. A shrub of drooping nature such as Forsythia suspensa is attractive if space permits. Any tree planted near the pond should be located so as not to shade it for Water-lilies require the full sun all day if they are to do their best.

Adding a "Garden Door"

(Continued from page 344)

The lower half of the door is panelled and painted a cream white like the dining-room woodwork. In the winter when the curtains are hung and the door is used but seldom the room still possesses the warmth and security which characterized it before the change was made. The sashes which swing outward do not interfere with the screens and are open continually in summer.

The small balcony (shown on page 344) was chosen for two reasons: first to supplement the piazza space afforded in summer by the sunparlor and, second, to serve as an outdoor breakfast room.

Though it may appear very small four people can breakfast there with comfort. It has a southern exposure, avoiding the early morning sun, and can be enjoyed at dinner too as the location is very happily shaded by a group of Spruces and Hemlocks. The fact that the balcony leads

(Continued on page 418)

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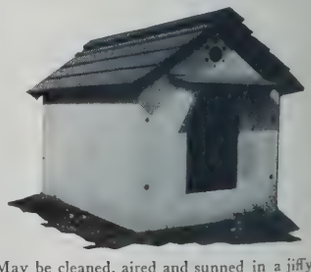

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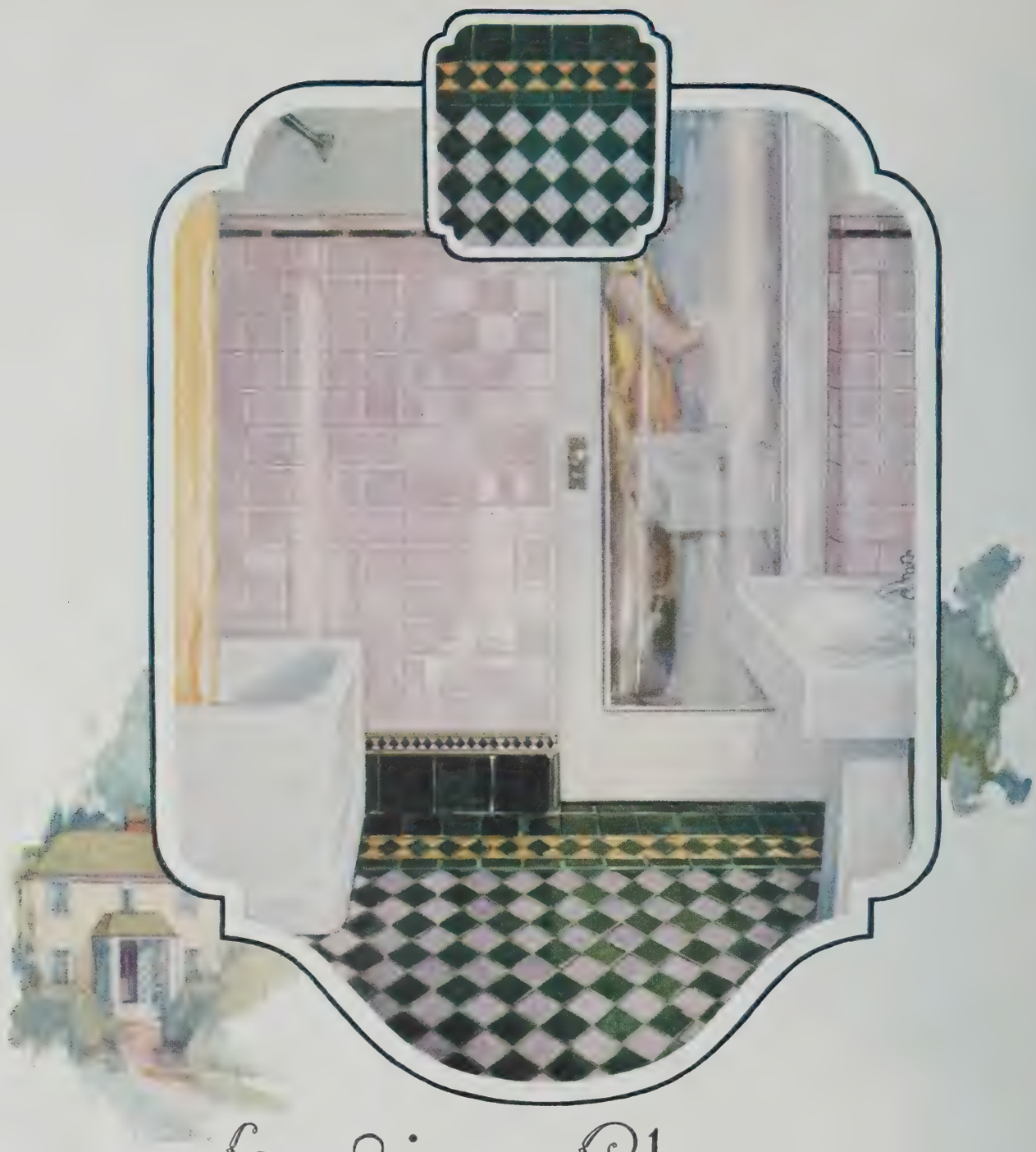

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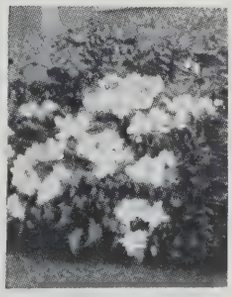

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Adding a "Garden Door"

(Continued from page 414)

off of the dining-room greatly facilitates the serving of an outdoor meal during which we can feast our eyes as well as our mouths, and once we have had a taste of *al fresco* dining it takes a veritable conspiracy of the elements to drive us inside.

In some instances it may be more feasible to forge this new opening in one of the other rooms. If the hall runs through the entire length of the house, access to the garden can readily be attained at the end opposite the front door. This will give a particularly attractive view of the garden and I know of few things that more completely capture the imagination of the visitor, or the house-owner tired after a day in the city, than the sight of a mass of blossoms as he comes up the front steps.

If your garden lies beneath your living-room windows, and you can spare the wall space, it is frequently possible to put in a door between two windows, also cutting both windows down to the floor. This method is particularly adaptable if the room has a bay window. In winter, a giant Fern or a cone of Ivy can with advantage be placed each side of the doorway, one in front of each window.

Of course, in planning for a new garden door you do not want it to look like a "recent improvement" and the picture on page 344 shows the advantage of a corner location for the piazza looks as if it really belonged there. A small open platform such as this has a certain advantage, aside from that of expense, over a more elaborate roofed or screened-in porch, as it leads more gracefully onto a grass or gravel path and gives one the feeling of being *right in* the garden. If in an exposed location, the porch may be shaded by an awning of standard color that can be rolled back at sundown.

If you are fortunate enough to have a house that nestles close to the ground, a brick or stone terrace, at ground level, may serve fully as well as a piazza or balcony. If you decide on this plan and dispense with the railing, a similar effect of security can easily be gained by using flower boxes or a few potted evergreens to screen.

In cases where there is no corner location, and the garden door is cut in the center of one of the house walls, the problem is a different one, and the straight lines must be broken in some way. A tall Cedar or pointed Box planted each side of the door, will do wonders to give this new improvement an age-old appearance, or a lattice covered with climbing Roses or a heavy vine of similar habit may be used instead. If a small platform be built out from the house, it can be tied to the ground in a comfortable manner by placing symmetrical wooden benches on each side of the doorway. A pointed roof over the door, supported by two or more pillars will give a small landing the appearance of a piazza, and a pergola, leading out into the garden, will make it possible for you to have Grapes within easy reach.

I can think of few minor alterations which give as much pleasure and enable us to get as much enjoyment out of our gardens. There are innumerable ways of accomplishing the desired result, and each one is a challenge to our sense of originality. There is comparatively little work connected with a simple alteration of this sort and in my own circle of acquaintances I happen to know of three families who have built in this garden door within the last few months. The invariable comment is: "How did we ever get along without it?"

Recent Useful Books

A Beginner's Garden Guide

GARDEN MAKING AND KEEPING by Hugh Findlay. Illustrated, pp. 252 (Garden City, N. Y.; Doubleday, Page & Co.)

THIS most attractive and excellent book "Garden Making and Keeping" by Prof. Hugh Findlay of Columbia University is exactly the type of garden book that we Americans have been in need of, and it is to be hoped that like the flowers of spring, it will be followed by many more in the same spirit. It is an American book written by one who has had years of practical experience in America not limited to one garden or one locality. We have had too many books which were mere compilations, and too many English books unsuited to our climate, and far too many books written by sentimental women. Mr. Findlay can hardly fall into any of these categories.

This book is ideal for the beginner who wishes to garden on a small scale. There are detailed directions for building the necessary and ornamental structures of the garden and the lists of Vines, Roses, Dahlias, Lilies, Bulbs, Rock Plants, Perennials and Annuals are so concise that they can be easily followed in contrast to the usual lengthy lists which are confusing and discouraging to the beginner.

Mr. Findlay has the rare combination of being practical and poetic. He has always seen and felt the beauty of growing plants and his ability to express this in his book makes his writing inspirational. With its spiritual tone and its practical advice it fills a long felt want of the right book to give one's friends about to embark on the adventure of garden making.

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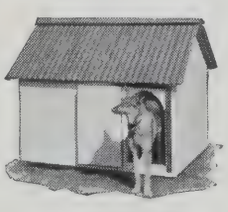

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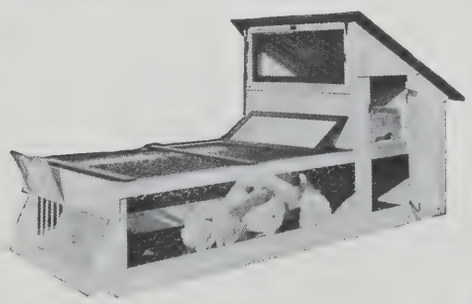

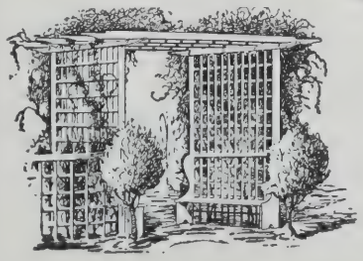

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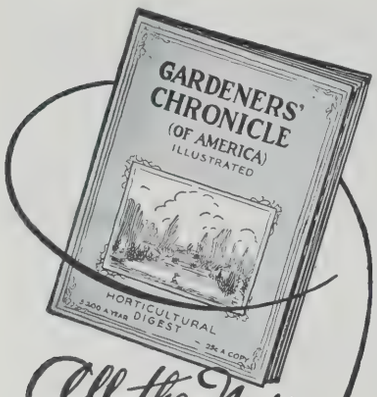

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GARDEN & HOME BUILDER

JULY 1926
35 CENTS

Special Issue No. 5

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Antiques and Interiors

Vol. XLIII No. 5

New York - Boston - Chicago

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in Rare Hardy Bulbs and Plants

TUBERGENI (Left) SHELFORD (Right)

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Entered as second-class matter at Garden City, N. Y., under the Act of Congress, March 3, 1879.

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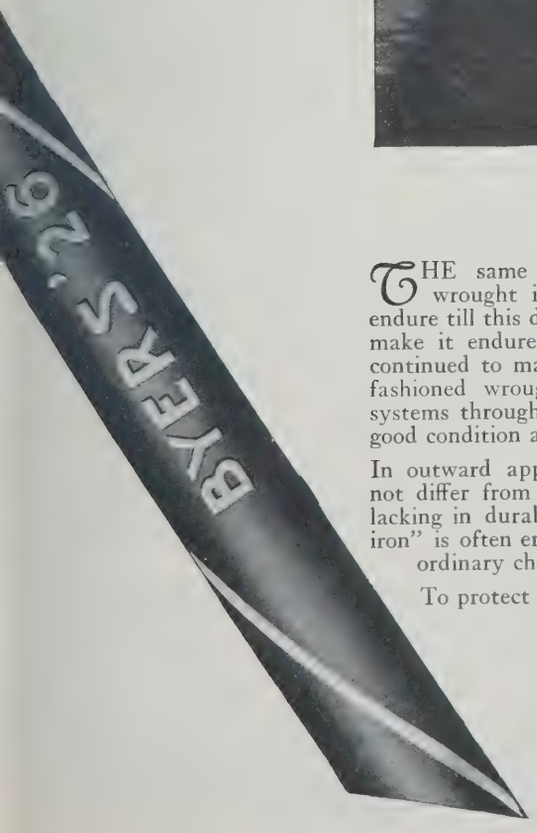

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Mixture	1.00	5.00	35.00

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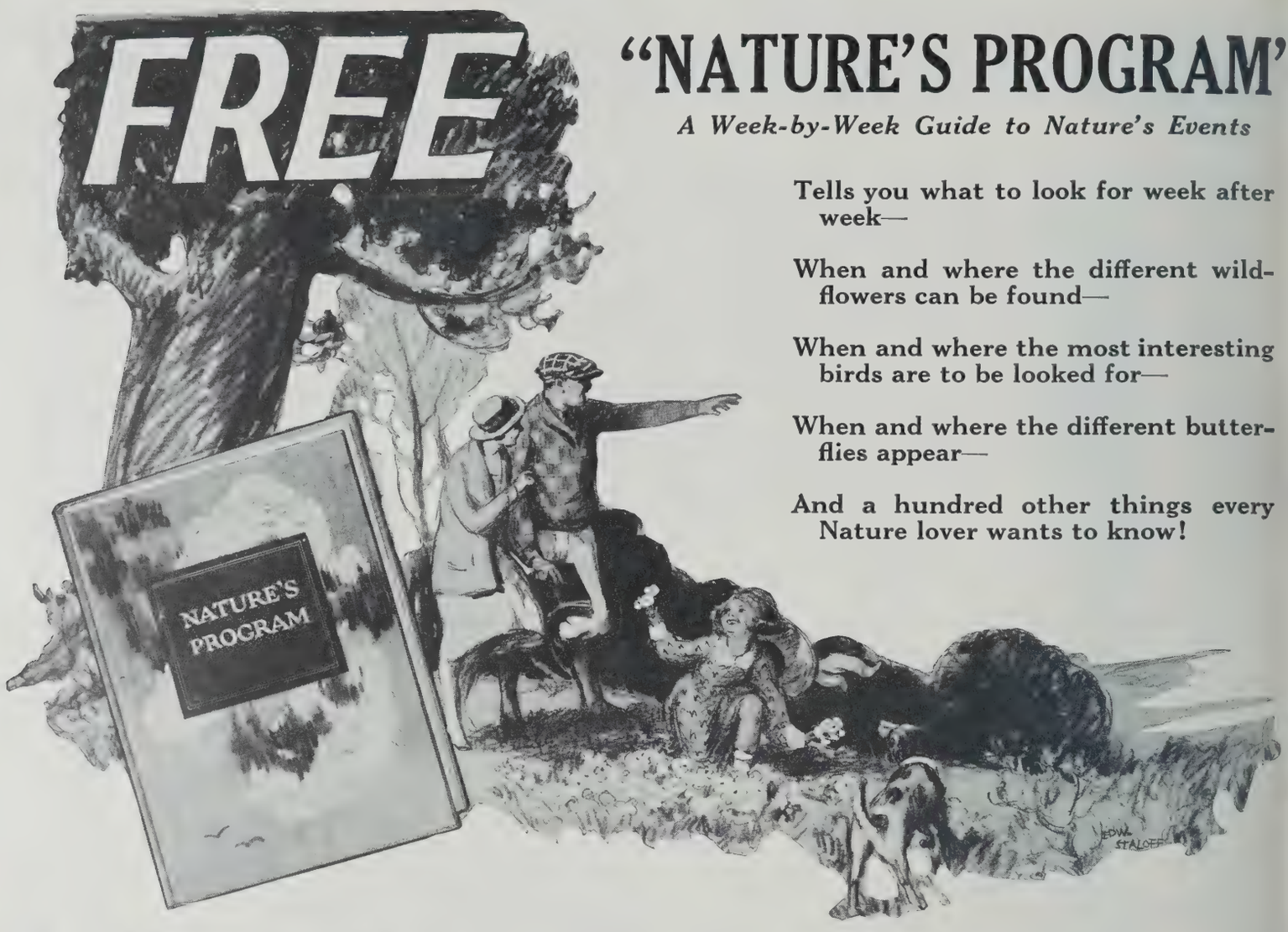

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As They Looked to Those Who Came to See Them

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GARDEN & HOME BUILDER

JULY, 1926 *Volume XLIII, No. 5*

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LEONARD BARRON, Editor *LUCY E. HUBBELL, Associate Editor*

The Forecast for August

Home-makers who are planning fall redecoration and refurnishing will find in the August number many solutions for their most perplexing problems, and many helpful and practical suggestions as to room arrangement. RUTH ROBINSON TREGENZA of the Department of Home Decoration at Teachers College, contributes *The Romance of Rooms*, fully illustrated with thirty-four photographs of interesting and unusual living room, dining-room, bedroom and kitchen arrangements for the modern medium sized home, where comfort and simplicity reign. In *Secret Diaries of Our Grandmothers* LEWIS E. THEISS discourses upon the old time bed coverlets, how they were woven, and the fascinating story of their names and designs. The article is illustrated by photographs of the original patterns and the modern reproductions which may be had in the shops to-day. *Silver for the Summer Home* by ELLEN D. WANGNER presents the case for plated silver—its worthwhileness and design. And P. E. FANSLER in *Heat, Ventilation, and Health* touches upon three vital problems of the home-owner who is planning his heating system for the winter.

Interesting Gardens of Interesting People appeals to everyone who enjoys a glimpse into the personal lives of the men and women whom they know, perhaps, by reputation only and have admired from afar; and these characteristic gardens of characteristic owners are full of human interest as well as suggestion for the gardener. In *Beauty Doctors of the Gladiolus* DR. FORMAN T. MCLEAN who has won for himself a unique position as a biographer of the Gladiolus discusses in authoritative fashion the introducers of the new varieties, and their legacies to the garden in the best of the modern introductions. NORMA H. SMITH in *Averting the Iris Tragedy* tells how and when to treat the borer worm which may attack the rhizomes of all types of Iris and kill the plants. *Why Soils Differ* by ROBERT STEWART, of the University of Nevada, discusses soil organic matter, its importance, and the methods of maintaining it.

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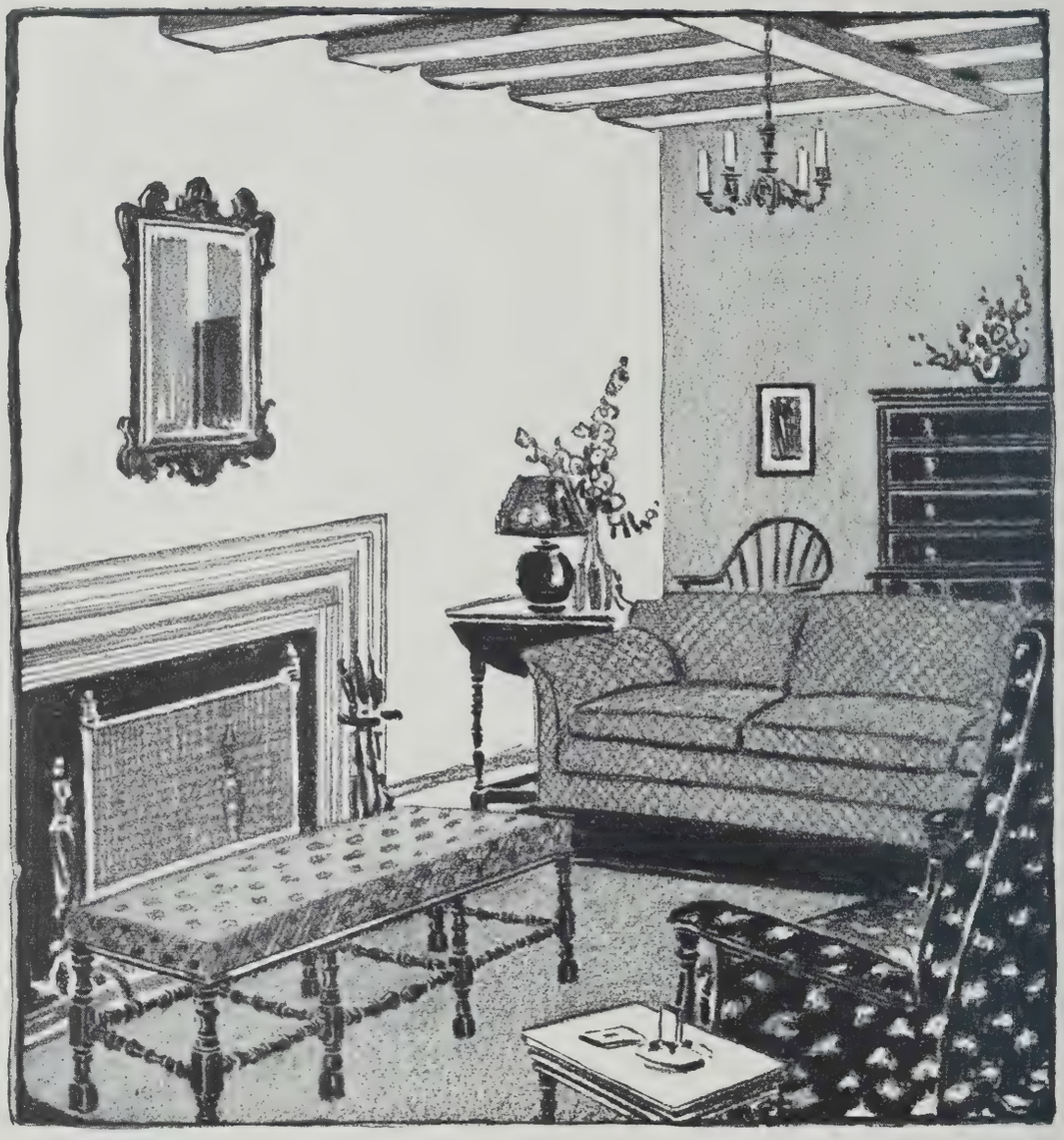

The charm of a well-furnished room is not measured by its cost but rather by the artistic value and appropriateness of its pieces. For example, the furnishings for the living room shown above can be purchased in this establishment at extremely low prices.

W. & J. SLOANE

47TH STREET AND FIFTH AVENUE
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GARDEN & HOME BUILDER

Vol. XLIII, No. 5 *JULY, 1926*

News and Comment

THE "Made in Europe" stamp has so long been regarded by our wistful and perhaps over-credulous New World eyes as the synonym of undisputed excellence in frocks and clocks and works of art, in the whole range of human manufactures from the sublime to the insignificant, that the discovery from authoritative sources of the present-day preëminence of American domestic architecture actually comes with a bit of a jolt. After we catch our wind, however, and begin calmly to reflect there seems no good reason why this should not be so and indeed a number of reasons why it should.

In the first place as the newest among civilized nations we have all the treasures of the ages at our beck with leisure enough now to digest them soberly and wealth enough to work out our desires. Then as "the melting-pot of the world" we have not had time or opportunity to "set" in any exclusive mould, and incoming peoples are continually contributing fresh notions and traditions which often prove profitable. Certainly there is room in this ample land of widely varying climate and contours for many architectural styles and, as we all know, there do already exist very diversified expressions bearing the earmarks of Old World influences and yet somehow in their spirit recognizably American. There is, for instance, in the so-called Spanish houses of southern Florida and California a briskness that somehow, intangibly but unmistakably, differentiates them from their more somnolent and somber prototypes—it is a jauntier, younger, more effervescent race speaking, people who know just what they want and who want first of all to be cleanly and comfortable. Comfort for the average citizen of "these United States" includes as a matter of course bathrooms and screens and electric ranges and all the other modern conveniences which most probably seem nonessential to his over-seas brother whose program of comfortable living would preferably emphasize patios and cool, darkened rooms and little paved centers for wine-bibbing sociability.

The strongest single strain is, obviously, English—not the stucco dwelling of fancy bath-effect thus currently designated—but the great stream which swept up and down the Atlantic seacoast with the coming of the colonists and which still flows here and there and everywhere with undiminished vigor under the title of Colonial, a title richly sired when we stop to think about it. Fascinating to con over the long line of ancestry, for home building in the British Isles dates back beyond the Norman Conquest to Imperial Rome and owes something to them both. Lately here in America we have begun to realize this and are turning directly to Normandy and other parts of old France for inspiration. Italy, too, had borne its quota of fruit and we are wondering when the Scandinavian soul will begin to pollenize.

The trend of New World architecture is perhaps impossible to predicate, a futile though alluring speculation, and the great thing after all—a fact which renders less disheartening much hastily conceived and executed construction by individuals in "the building game" whose avarice seems to exceed both taste and conscience—is the assurance that, measured by any standards our good houses are very good houses indeed!

THE CHARM OF ROADSIDE PLANTING

LAST summer the writer traveled along a Florida road with Mr. H. Harold Hume, a prominent horticulturist in that state. Shortly after leaving the city limits Gaillardias were noticed growing by the roadside. A comment brought forth the information that miles of Florida roadsides had been sown to seed. Of the various things sown the Gaillardias seemed to have best withstood the severe test. Some seedsmen put up packages of seeds for that purpose. Why not introduce that custom along our northern roads? Imagine a roadside bordered with Gaillardias or Coreopsis! There are fields in Pennsylvania where Coreopsis lanceolata has escaped cultivation. Surely it will grow along the roadside.

CULTIVATE THE HABIT OF RECORD KEEPING

THERE appeared in an early May issue of the Providence R. I., *Journal* a twenty-year record of the blooming of an individual Elm tree in that city. By this record the observer gave the accuracy of the lateness of this season, no guess work. Such records are extremely valuable for any gardener to keep, and when done in a large way over a great area they really have a tremendous scientific value. For instance, Dr. A. D. Hopkins of the Federal Bureau of Entomology collected such data for a series of years comparing dates with certain phenomena in the life history of insects. As a result he prepared a chart which enables any one whose wheat farm is not in mountainous country to figure out the sowing date of Wheat to prevent injury from the Hessian fly. Only the surface has been scratched in this line of research. This is in line with the old-fashioned belief that it is unwise to lay by the heavy winter underwear until the Locust trees have bloomed.

COMING EVENTS

THE plant student will find unusual opportunities to indulge himself during the month of August. To begin with, there is the International Conference of Plant Science to be held at Cornell University, Ithaca, N. Y., on August 16th to 23rd at which representatives from every state in the union and from the leading botanical institutions of the entire world will be in attendance. This, of course, will be a strictly technical gathering. A few days in advance, on August, 12th, 13th, and 14th, the International Conference on the Problems of Plant Sterility has been called by the Horticultural Society of New York. This will touch problems of vital moment to the horticulturist. The three-day session will be divided between the Thompson Institute, at Yonkers; the New York Botanical Garden, and the Brooklyn Botanic Garden.

Gladiolus enthusiasts will, of course, foregather at Rochester, N. Y., for the annual meeting of the American Gladiolus Society on August 11th, 12th, and 13th.

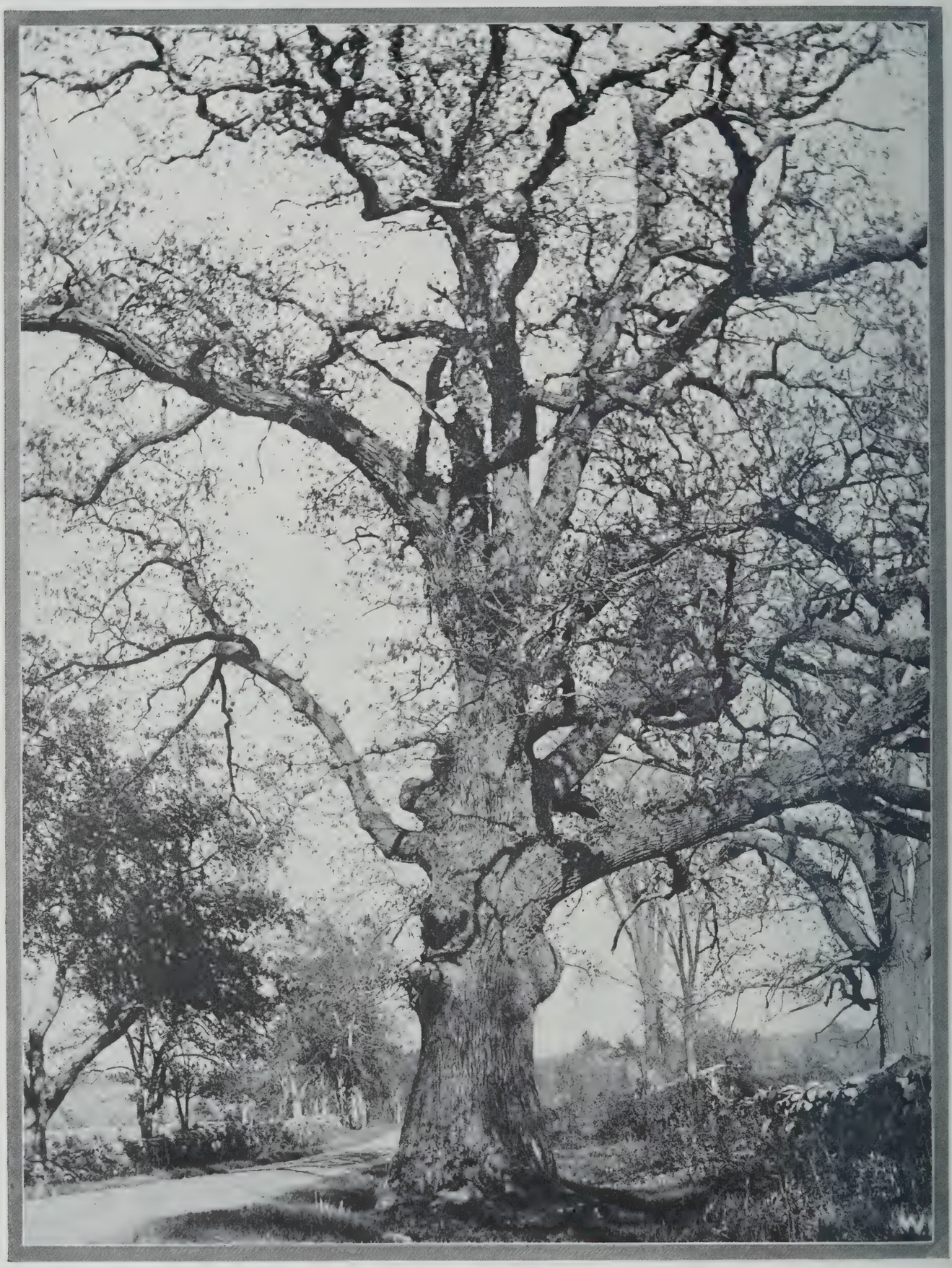
For those who are in the South in the middle of the month there is the 42nd Annual Meeting and Trade Exhibition of the Society of American Florists and Ornamental Horticulturists at New Orleans, August 17th to 19th.

Preliminary announcement of two important flower show fixtures for 1927 have reached us. The 8th National Flower Show under the direction of the Society of American Florists will be held in Detroit, Michigan, March 12th to 20th, 1927 and the International Flower Show at New York, the 14th in its series, will be held in the Grand Central Palace, March 21st to 26th, 1927.

ELECTROCULTURE

EVERY so often there comes into the limelight some method of adapting electricity to the growing of plants with the argument that electrical current is beneficial in some way or another. It has been tried in a multitude of ways—charging through the ground, charging through the atmosphere, or by electrifying the water in an overhead irrigation system. Whatever the method of introducing the current the thought has been that some stimulation of growth might result. The Department of Agriculture at Washington has been quietly investigating this theory that has held the field of attention for three quarters of a century in one way or another.

The conclusion reached is that "the United States Department of Agriculture has failed to discover any marked reaction of plants to electrical treatment in any of the experiments in which it has had a part." That ought to dispose of the question fairly well because the opportunity has been given for the beneficial effects, if any, to be amply exhibited. At the same time there seems to be an opinion, in England especially, that electrical treatment has resulted in increased yields of crops. Those who are interested in a further minute discussion of the case in all its details will find it in Department Bulletin No. 1379, but so far as the average gardener is concerned he can remain pretty well satisfied that, for all practical purposes, "there is nothing to it."



The "great oaks" that Longfellow wrote about stand today, and with the careful attention of the tree surgeon and cultivation, are more vigorous and greater than they were, as shown by old prints and pictures

"The great oaks, that throw
Tangles of light and shade below,
On roofs and doors and window-sills."
Longfellow, "Tales of a Wayside Inn"

The welcoming approach to the Red Horse Tavern which stands just beyond and to the right

"A place of slumber and of dreams,
Remote among the wooded hills!"
Longfellow, "Tales of a Wayside Inn"

Longfellow's Wayside Inn from the South West

"As ancient is this hostelry
As any in the land may be,
Built in the old Colonial day,
When men lived in a grander way,
With ampler hospitality."
Longfellow, "Tales of a Wayside Inn"

WHY I BOUGHT THE WAYSIDE INN AND WHAT I AM DOING WITH IT

BY

HENRY FORD

I FIND recreation in the trees and in the birds, in walking across country, in motoring, in hunting up the objects which our fathers and our forefathers used, and reconstructing life as they lived it. They knew how to order some parts of their lives better than do we. They had much better taste; they knew more about beauty in the design of commonplace, everyday things. Nothing that is good ever dies. That is why we are taking over and reconstructing in their periods a couple of old inns—one in Massachusetts and another not far from Detroit. One can live in them, keeping the best of the old life with the best of the present.

The Wayside Inn, at South Sudbury, Massachusetts, is one of the oldest in the country—we are a new country and nothing is very old, but the Wayside Inn has housed George Washington and the Marquis de Lafayette and, through Longfellow's "Tales of a Wayside Inn," has become a part of the nation. It is something that ought to be preserved for all time for the public, and when it came up for sale we bought it, not at all as a personal matter, but to preserve for the public. The Inn expressed the pioneer spirit —and the pioneer spirit is what America has, over and above any other country. If ever we lose that spirit, if ever we get to the point where a majority of the people are afraid to do things because no one before them has done them or because they are hard to do, then we shall stop going forward and start to go back.

I deeply admire the men who founded this country, and I think we ought to know more about them and how they lived and the force and courage they had. Of course, we can read about them, but even if the account we are reading happens to be true, and often it is not, it cannot call up the full picture. The only way to show how our forefathers lived, and to bring to mind what kind of people they were, is to reconstruct, as nearly as possible, the exact conditions under which they lived.

"Half effaced by rain and shine,
The Red Horse prances on the sign"

Those of us who are older can still think in terms of the life of the pioneers, but the generation growing up is in a different world from the one we grew up in. The younger generation knows a good deal about automobiles and airplanes and the radio and the movies, but it has nothing to go on when it comes to comprehending the pioneers and what they stood for. There is no use talking about colors to a man who is color blind. And then, too, the foreigners who come to us have no easy way of finding out what is the real spirit of this country.

At first we had no intention of doing more than buying the inn and restoring it. But, since it is on a public road, there was nothing at all to prevent it from being exploited and the roads lined for half a mile around with peanut and hot-dog stands, and side shows, and all sorts of catch-penny places. We had to preserve the setting, and so we bought enough additional land for that. Now we are moving the road because the jarring threatens the Inn's foundations.

We went about getting the Inn back into its original condition—all except one bedroom. This we have named the "Edison Room" and have furnished it as of the time of Mr. Edison's birth.

There was a good deal to be done. The Inn had been considerably modernized. We tore out the brick work which had closed up

many of the old fireplaces, and now we have sixteen big fireplaces—some of them big enough to hold logs that take three men to lift. We have restored the floors.

The lighting gave us a good deal of trouble. The old inn was lighted by candles in wall sconces and in candlesticks. These had been replaced by ordinary electric-light fixtures We could not, as a practical matter, go back to candlelight, for the fire risk would have been too great. We finally managed to get sconces such as must have been used in the inn, and to get candle-shaped electric lights which very well imitate the old candles.

Then we went out to find some of the relics of the inn which had disappeared. Most of them we have found. One trunk, for instance, we located and brought back from Kansas. The old Bible we managed to repair, and we put it in a case so that it will last for ever. The old clock had not been running for many years. It was made in England in 1710, and many of the parts were badly worn, although other parts, in spite of all the years of service, were as good as new. We made new parts to replace the worn ones, but we saved all of the old parts and have them in a case fastened inside the clock.

Thus, bit by bit, we have the Inn about as it was when Washington first stayed there during the Revolution. The furniture did not give us much trouble. We had rather a large collection of New England furniture of the period, and the inn itself had a great many fine pieces which only needed expert repairing.

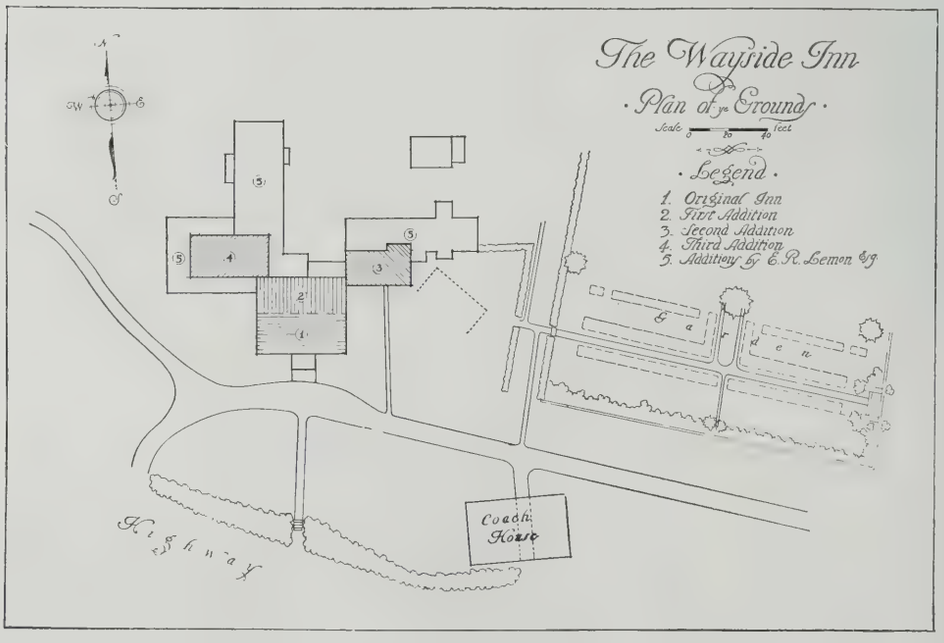
Having finished the inn and bought all the surrounding land, we then began to put the whole neighborhood into somewhat of its former condition. We picked up two old sawmills of the time—one of them in Rhode Island. These we are reassembling. On the property was already a grist mill with a breast water wheel which was grinding only feed. This we are putting back into the exact condition it was in during the Revolution—with an over shot wheel—so that it will grind wheat, rye, and corn. We are working on an old blacksmith shop and shall have it ready, with the forge, tools, and benches of the time. Perhaps we shall get more of these shops together, for there is a lesson in the old village industries.

In the barn of the inn we are gathering the coaches and rigs of the time. The coach house is not large enough to hold more than a couple of specimens of the collection. One of the most interesting of the old coaches is the "Governor Eustis," in which Daniel Webster and Lafayette rode in 1825 to the dedication of the Bunker Hill Monument. We have a collection of old ploughs and other farming tools, and we have oxen to pull them, just as the pioneers had.

By the time we get through, we expect to have this section, not a museum of Revolutionary days, but a natural, working demonstration of how the people of those days lived. We have both lost and gained in the movement of modern industry. Our gains are many times greater than our losses; we can keep all of the gains and repair some of the losses.

Furnishing the Wayside Inn started us on the way to collecting old furniture and carts and every object used in this country during and since Colonial times. That collection has grown until now it covers several acres in one of our buildings at Dearborn. It is not as yet an ordered collection.

We want to have something of everything—we have types of every sort of wagon and carriage ever used in this country, from the covered wagon of the pioneer to the latest style of buggy. We have nearly every type of agricultural instrument, every type of musical instrument, we have all kinds and sorts of furniture and household effects. One of these days the collection will be put into a museum.



The Red Horse Tavern

Charles L. Loring.

SEVENTY years ago Longfellow wove the Tales of a Wayside Inn. In post chaise and on horseback the guests had come down the Sudbury turnpike to Squire How's Ordinary, and of an evening they gathered before the open fire and each told his story. There was the student of old books and days, the traveler from abroad, the vender of rare fabrics, and the poet.

The tavern-keeper first took the stage, the Revolutionary sword above the mantle served as theme and he began, "Listen my children and you shall hear of the midnight ride of Paul Revere."

Nowadays Mr. Ford is the owner but does not often play Mine Host beside the old brick hearth. His theme is the preservation of the Wayside Inn and each visitor is left free to gather from the quaint establishment beneath the oaks what interests him most, whether history or architecture, furnishings or flowers.

THE STUDENT'S TALE

THE "History of Sudbury," published in 1889 by A. S. Hudson refers to Howe's Tavern as "a grand old land mark."

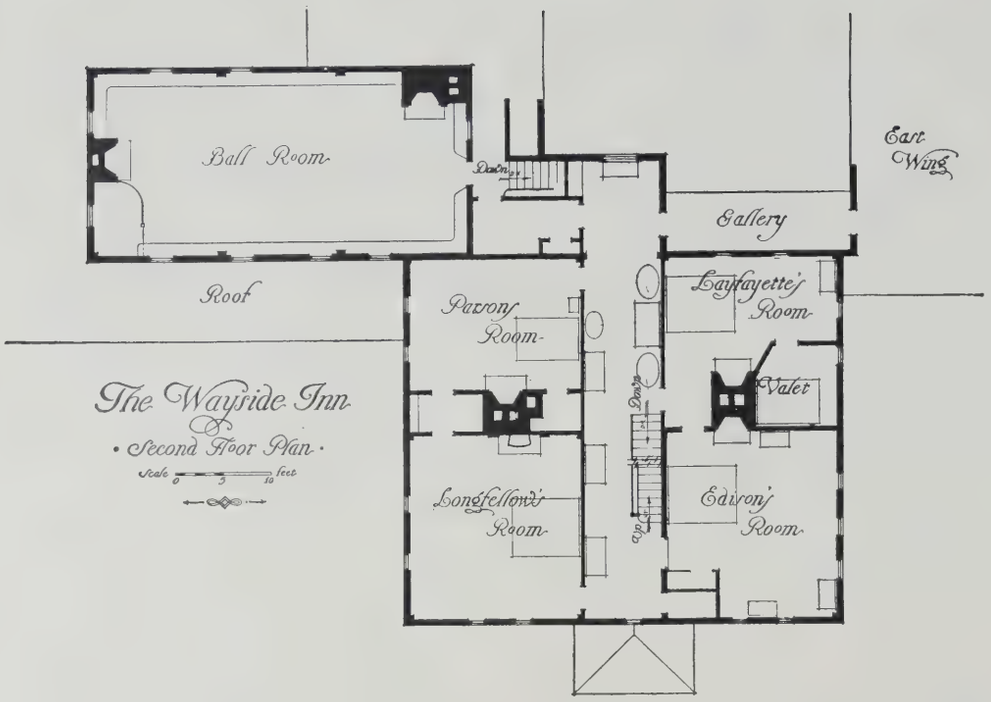
"It was built about the beginning of the eighteenth century by David Howe, who in 1702 received of his father, Samuel Howe, a son of John, one of the town's early grantees, a tract of one hundred and thirty acres of land in the 'New Grant' territory. The land upon which this ancient ordinary was built is situated in what was called the fourth squadron of the New Grants. As the 'New Grants,' though allowed in 1649, and laid out and apportioned by lot in 1651, was not purchased of the Indians until 1684 great changes doubtless took place in the ownership.

"During the process of constructing the house, tradition says, the workman resorted for safety at night to the Parmenter garrison, a place about a half-mile away. The safety sought was probably from the raids of Indians, who, long after Philip's War closed made occasional incursions upon the borders of the frontier towns. At or about the time of its erection, it was opened as a public house, and, in 1746, Col. Ezekiel Howe, of Revolutionary fame, put up the sign of the 'Red Horse,' which gave it the name that it went by for years, namely, the 'Red Horse Tavern.' In 1796, Col. Ezekiel Howe died, and his son, Adam, took the place and kept the tavern for forty years. At the death of Adam it went into the hands of Lyman, who continued it as an inn until near 1866 (Note: He died in 1860, the Inn was sold in 1866.) about which time it passed out of the hands of an owner by the name of Howe. Thus, for more than a century and a half, and by representatives of four generations of the Howe family, was this place kept as an inn. In the earlier times this house was of considerable consequence to travelers. It was quite capacious for either the Colonial or the Provincial period, and was within about an easy day's journey to Massachusetts Bay. The road by it was a grand thoroughfare westward. Sudbury, in those years, was one of the foremost towns in Middlesex County in population, influence and wealth, while the Howe family took rank among the first families of the country about. The seclusion of this quiet spot to-day is not indicative of what it was in the days of the old stage period, and when places since made prominent by the passage of a railroad through them were almost wholly or quite unknown. In the times of the wars against the Indian and French it was a common halting place for troops, as they marched to the front or returned to their homes in the Bay towns. It was largely patronized by the up-country marketers, who, by their frequent coming and going, with their large canvas topped wagons, made the highway past this ordinary look like the outlet of a busy mart. Stages also enlivened the scene. The sound of the post horn, as it announced the near approach of the coach, was the signal for the hostler and the housemaid to prepare refreshment for man and beast. In short, few country taverns were better situated than this to gain patronage in the days when few towns of the province were better known than old Sudbury.

"Along the highway, in the eastward, in the direction of South Sudbury, which from this place is about two miles distant, are still standing several ancient oaks. These trees were, doubtless, standing and had considerable growth when lot number fifty-eight was of the town's common land, and owned by Tantamous and others who signed the Indian deed in 1684, by which the new grant lands were conveyed.

"Squire Lyman Howe, the last landlord of the Inn and the one of Mr. Longfellow's poem, was a man rather imposing in appearance, somewhat dignified and grave. He was at one time a prominent singer in the Congregational choir, a school committee man, and justice of the peace. Years ago, he was a familiar object to the villagers of South Sudbury, riding in his chaise with the top tipped back, as he went to the post office or to visit the district schools; and he fitly represented, in his younger and more prosperous years, the family of Howe. He lived a bachelor and was the last link of an illustrious lineage. As a tavern-keeper he did less and less business as his years increased, and finally the landlord died at the Inn, the last of the name of Howe who lived at that famous house.

"Since his death, the place has been a resort for pleasure-seekers and people of antiquarian tastes. It has been visited from far and near, and so it will continue to be as time passes by. Traditions concerning it may gather and grow, and treasures of Colonial art may be traced to it, till, like the alleged articles of the 'Mayflower's' illustrous cargo, the original place of deposit could not have contained them all. Indeed, marvelous stories have already been told of the auction that followed the death of Squire Lyman Howe, but these stories are extravagant. A few articles that were rare and relic-like may have been sold, but, for the most part, it was only a commonplace sale at the inn when the landlord died. The piano that was sold was the first one ever brought into the town. Strange stories have also been told as to occasional guests at this ancient 'ordinary.' It has been said that Captain Wadsworth here rested and refreshed his men on his way to the Wadsworth fight; that here Washington stopped and Lafayette lodged. That some of the traditions are true is also probable, that some are not true is also probable; as to its connection with Captain Wadsworth and his company, it is sufficient to refer to the date of the house and the date of the fight. That General Washington stopped there is quite probable, since he went



from Marlboro to Boston and dined at Weston with Colonel Lamson, who commanded the Fifth Middlesex Regiment in the Revolutionary War. As the Howe tavern would be on his direct route it would be natural for him to stop there, and at least take lunch with Mr. Howe, another of the colonels of the Revolution."

In the Yearbook of the Society of Colonial Wars, published in 1898, is a paper by S. A. Brent on Sudbury and the Wayside Inn which narrates other items of the early history.

"This old town of Sudbury was one of the earliest inland settlements of the Bay Colony. The population on tide water was pressed by increasing immigration as early as 1637, and in that year it was proposed that a company should proceed westward from Watertown, 'owing to straitness of accommodation and want of more meadow.' Their route had been, however, already marked out for them. Through the southeast corner of their settlement passed the Indian trail, or the 'old Connecticut path.'"

Of the Inn itself he states. . . "The original house was a small one, generally supposed, says Mr. Rogers, to be the L in the rear of the present edifice, although others speak of part of it as standing as late as 1829, implying that the original structure has by this time disappeared.

"David How kept the tavern until his death in 1746, when it passed into the hands of his son Ezekiel, by whom it was enlarged as increased business made necessary. Receiving the custom of the great highway and mail route from Boston westward, the old inn of one story was merged into a more elaborate structure of two stories with a gambrel roof and arms spreading on either side, receiving through its seventy-nine windows alike the summer's and the Winter's sun.

"Its new proprietor christened his inn the 'Red Horse Tavern,' to distinguish it from the 'Black Horse' of Marlborough, and hung in front of it a sign, one side of which bore the effigy of a fiery steed, while on the other were later seen the initials of the first three owners:

D. H.	1686.
E. H.	1746.
A. Howe	1796.

"For years this sign swung to the breeze and bore the heat of summer and the blast of winter, and was undoubtedly showing its weather-beaten and half-obliterated features when Longfellow saw it on a visit which was to immortalize the Red Horse Tavern as the 'Wayside Inn,' for he included it in the picture of the house.

'Half effaced by rain and shine
The Red Horse prances on the sign.'

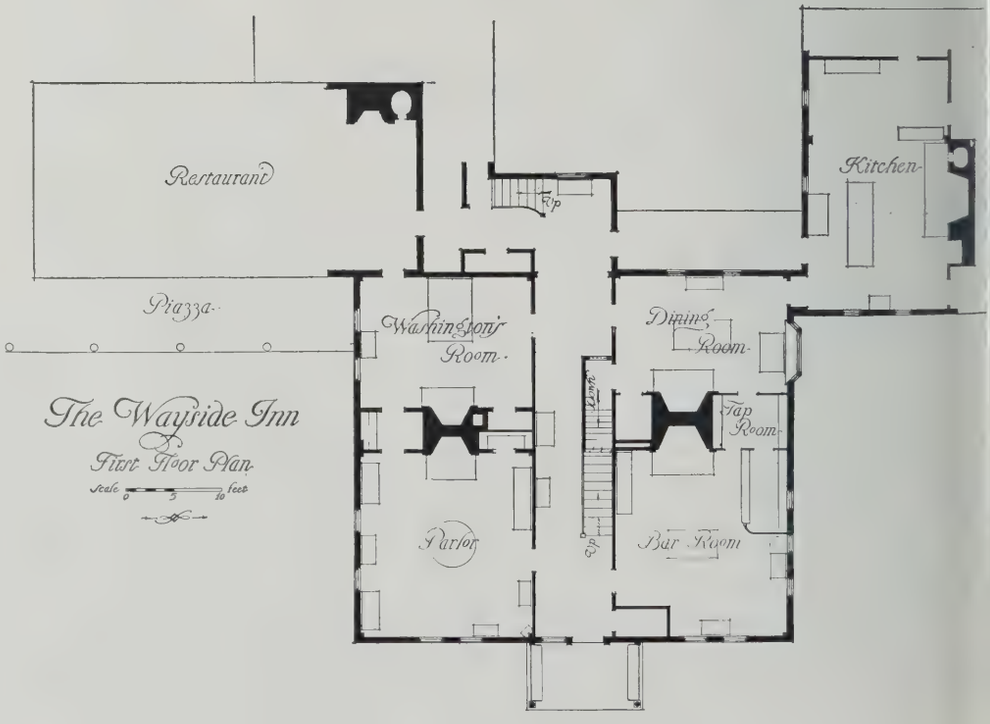
But the old sign has disappeared just as the old name gave way to the newer title.

"It was during the incumbency of Ezekiel How that a price list was established at Sudbury for various commodities. It read thus:

Mug best India flip . .	15
New England do . .	12
Toddy in proportion . .	
A good dinner . . .	20
Common do	12
Best supper and breakfast	15 each
Common do	12
Lodging	4

"Upstairs you are shown the travelers' rooms which those of lesser note occupied in common, and the state chamber with its wall still decorated with its wall paper of bluebells, where tradition says Lafayette slept on his journey to Boston, in 1824. Above in the garret the slaves were accommodated, and when Indian invasion was feared grain was stored there against a siege. In one of the upper rooms was the dance hall, which was later placed in an annex to the ancient building. In the more modern room the daïs still stands at one end for the players, the wooden benches are still fixed to the walls, the floor is smoothly polished by feet once swiftly tripping in the old-fashioned contra dances or the stately minuet.

"All through our New England history the Red Horse was a favorite resting place of the New England soldiery, mindful of its proverbial good cheer. As long ago as 1724, during Lovewell's war, this tap-room was the rendezvous of the troop of horse, steel-capped and buff-coated, that patrolled the roads hereabout. Later, the troops hurrying to the frontier in the French and Indian wars, to Ticonderoga and Crown Point, shook the dust from what it would be sarcasm to call their 'uniforms,' before this house. Later still, the Worcester minutemen, led by Timothy Bigelow, rested here on their forced march at the Lexington alarm, until the distant



rumbling on Percy's cannon hurried then to the front, and from still further away Putnam and Arnold and the Connecticut militia may have asked their way at this house, whose landlord himself had buckled on his sword and ridden to the fray with the men of Sudbury.

"Ezekiel How, at the outbreak of hostilities in 1775, was lieutenant-colonel of the Fourth Regiment of Middlesex County Militia, of which James Barrett, of Concord, was colonel. The next year, May 10, he was chosen by the Legislature as colonel of the regiment, and held his commission until Jan. 26, 1779, when he resigned.

"At the time of the Lexington alarm, one-fifth of the entire population of Sudbury was enrolled in the six companies of the town, and the number in actual service at Concord and Lexington was three hundred and two. Word came between three and four o'clock on the morning of the 19th of April to the Sudbury member of the Provincial Congress, by an express from Concord, that the British were on their way to that town. The church bell was rung, musketry was discharged, and by sunrise the greater part of the population was notified. The men of this town had already received 'the baptism of fire.' They had learned of war since it had been brought to their very doors by the savage warriors of King Philip, and in the intervening period one hundred names of Sudbury's sons are found on the muster rolls of the successive French and Indian wars.

"Colonel How died in 1796. In the inventory of his estate we find the famous coat of arms appraised at $4, his firearms at $8, his library at $10, the clock at $30, a silver tankard at $25, and other plate at $30, the homestead with 240 acres of land at $6,500, the entire appraisal amounting to $9,531.48. We see by this will that the inn then consisted of new and old parts, for it speaks of 'a new kitchen at the west end of the dwelling house, with the lower room adjoining thereto, also the long chamber over the aforesaid room, with the north-west bed-chamber in the old part of said dwelling-house.' He left most of the personal articles before mentioned to his 'well-beloved granddaughter, Hepsibah Brown,' and, after many minor legacies, the residue of his estate to his third son, Adam How.

"This third proprietor of the Red Horse Tavern was the antiquarian of the family. The ancient coat-of-arms, hanging during his boyhood in the parlor of the inn, gave his thoughts an heraldic turn, and he was proud of the lineage he derived from an English ancestry. Longfellow could have said of him, as of his son:

"'Proud was he of his name and race,
Of old Sir William, and Sir Hugh,
And in the parlor, full in view,
His coat-of-arms, well-framed and glazed,
Upon the wall in colors blazed;
He beareth gules upon his shield,
A chevron argent in the field,
With three wolf's heads, and for the crest
A Wyvern part-per-pale addressed
Upon a helmet barred; below
The scroll reads, "By the name of Howe."'

"It was Adam How who put into circulation the How genealogy, founded on a tradition which traced the family from John How of

The hearth of the old kitchen with the oven door on the farther side where the cooking for family, farm hands and tavern guests was carried on with the heavy iron utensils

Sudbury, son of John How of Watertown, to a Warwickshire ancestor, son of John How of Hodinhull, connected with the 'most noble and puissant Lord Charles How,' created Baron How of Wormton by James I., and Earl of Lancaster by Charles I., and descended from Hugh, a favorite of Edward II., all of which was inscribed among the scrolls and leaves and other devices of the coat-of-arms, surmounted by a Wyvern, a two-legged, winged creature, with the head of a dragon, an heraldic cockatrice as fabulous as the genealogy over which it hissed its vipery head. One of the learned historians of Framingham dismisses the genealogy by saying he had failed to discover its confirmation in the records of Watertown, and Savage condemned the attempt to connect this family with a title extinct nearly two hundred years before the emigration. But we shall not complain if the pale light of tradition continues to play around this coat-of-arms as around so many in our New England mansions, equally elaborate and imaginary.

"Adam How kept the inn until 1830 and was succeeded by his son Lyman, who was born in 1801, and was found dead in his bed in 1861. (Note. 1860)

"Gone from the window-sash, but still preserved for us to-day, is that invitation, homely but redolent of good cheer, almost the only thing save the bare walls which takes us to the good old days of the Red Horse Tavern, scratched on a window pane June 24, 1774, by 'William Molineaux, Jr., Esq.,' son of a patriot friend of Adams and Otis:

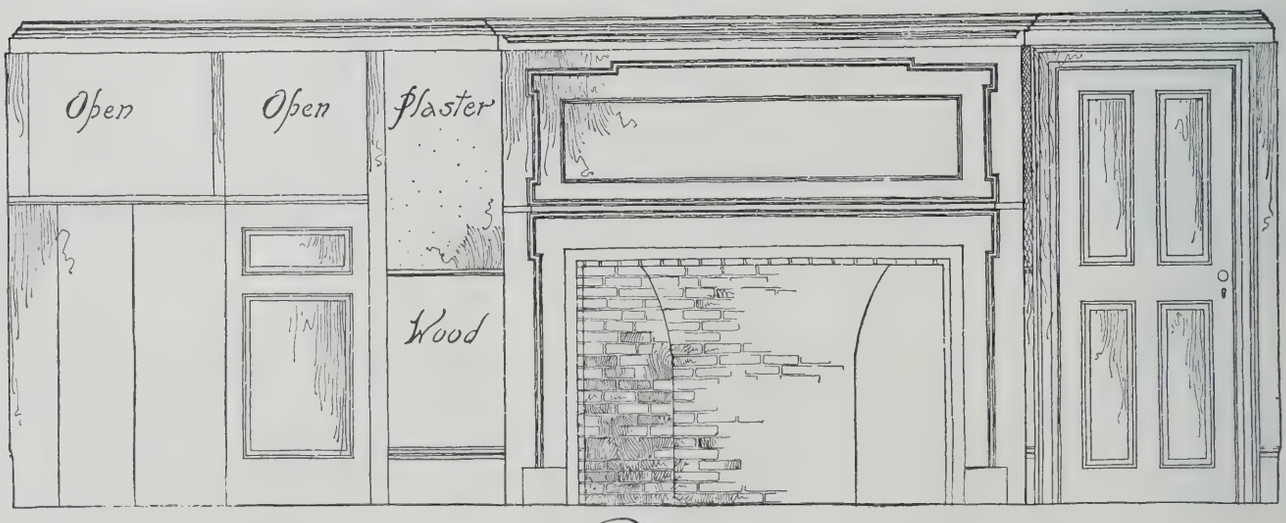
"What do you think,
Here is good drink,
Perhaps you may not know it,
If not in haste do stop and taste,
You merry folks will show it."

"It is possible that Longfellow stopped, when a young man, at the Red Horse Tavern on his way to New York to sail for Europe; but the only visit we know him to have made was after Lyman Howe's death. Writing in his journal Oct. 31, 1862, he says:

"Drive with Fields to the Old Red Horse Tavern in Sudbury—alas! no longer an inn! A lovely valley, the winding road shaded by grand old oaks before the house. A rambling, tumble-down old building, two hundred years old."

After the death of Lyman Howe in 1860 the place was inherited by Lucy Howe Puffer who sold it to S. H. Howe and Homer Rogers In 1897 it was acquired

The dining room is but seven feet high and yet the generous fireplace does not seem out of scale. Compare the photograph and measured drawing below, the informality of design is one secret of its charm. The openings to the tap room beyond may be closed by hinged shutters



Fireplace Wall of Dining Room

Scale 0 1 2 4 feet

Around the walls of the sitting room are hung portraits of Longfellow and of his friends whom he pictured gathered in this room recounting the Tales of a Wayside Inn. Above the fireplace is the reputed How coat of arms described in the poem

The Washington bedroom showing the wide floor boards, the quaint hardware and the old mantelpiece though the over-mantel is modern; the dado panels were transplanted from a Colonial Church now demolished

by Mr. Edward R. Lemon and reopened as a tavern. In 1923 it was purchased by Mr. Ford together with many of the neighboring farms and mansions.

THE ARCHITECT'S TALE

THE plan of the grounds on page 434 illustrates the sequence of the historical additions to the original structure which was probably long and narrow with a "lean-to" roof later raised and made into a "gambrel" roof. Some external transformations have occurred since Longfellow wrote his description. Dormer windows have been added to the attic, the door to the "Dining Room" has been converted into a bay window, a covered porch has taken the place of the pediment over the front entrance and another has encircled the westerly wing, while the sheds and outhouses have been moved about like childrens' toys.

Mr. Lemon in the last twenty-five years had restored and remodeled much of the interior woodwork.

To the dyed-in-the-wool antiquarian who adores a dilapidated ruin which can be authentically dated, even the changes made by one of the Howes in pre-Revolutionary days are a poignant regret. He would even insist on following the early records and spelling the name "How," the surviving members of the family notwithstanding! But the humanitarian delights in the slow transformation of the Tavern, generation after generation, which mirrors the progress of civilization during two centuries and a half. The fact of to-day's interest in the collection of early Americana and the preservation of such landmarks records a cultural phase in the community which comes after wealth is assured and after simplicity is appreciated for its own sake.

Without changes the Inn would not tell the full story of New England. Without restoration and without old furniture it could not picture to every visitor the charm and dignity of the life of the Fathers of the Republic.

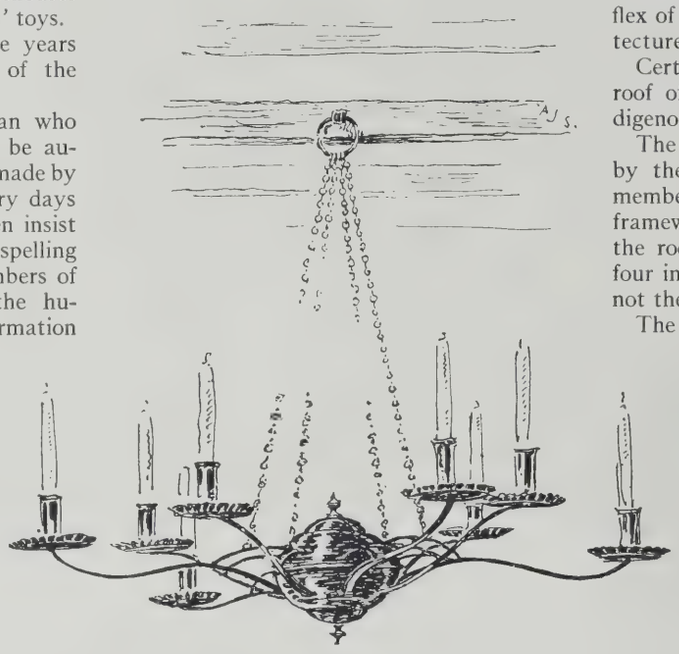
There is no attempted deception as to which is old and which is new. Records and hearsays are being collected and compared to establish the history of each detail and the information is free to all.

THE Inn itself is the center of a group of buildings, some very old, like the barn across the highway, some new, and some comparatively recently assembled out of old fragments like the coach house. In addition to the ninety acres belonging to the former owner, Mr. Ford has acquired over two thousand more on which stand some ancient and delightful homesteads and the ruins of several grist mills. By including both sides of the roadway for a considerable distance in the "preserve," he will be able to prevent hot-dog stands and flaunting filling-stations from defacing the neighborhood. The woods and farm lands, the little stream with bridge of crude stone work, the prim garden, all blend in the setting of the old time country life.

The plan of the house itself is typical of the late Colonial period, just two rooms on each side of a hallway, but it is also typical of suburban homes of to-day. The form has survived because it is simple, convenient, and economical.

In the plans of the first and second floors (page 436) only those rooms are drawn which are open to the public and which are of intrinsic interest. The tourists' dining room back of Washington's Room and below the Ballroom is not detailed nor the service for an up to date hostelry in the rear wing nor the rooms which are beyond the kitchen to the East. The names marked on the plans are those in common use to-day—and are employed throughout these notes.

Photographs and measured drawings for the home builder of to-day who wishes to recapture the old time domestic charm are more vivid than the poet's verses, but the poet's touch must be added to them. Even



The Spider-web candelabra of light sheet metal bent into delicate curves. A masterpiece of primitive country craftsmanship hung in the restaurant

a bit of free verse may be allowed. The fireplace does not need to be exactly on axis, the paneling may be naïve and varied, the floor boards of unequal width—but the improvisations must be sincere, they should express a structural significance.

Perhaps one of the clearest object lessons in the Wayside Inn is scale, that catchword of the architect. Here the size of each unit, whether ceiling height, window opening, or window pane, width of clapboard on the outside or of chair rail within is small enough to suggest domesticity. Even the large fireplaces are given scale by the narrowness of their masonry enframement or the low projection and delicate mouldings of their wood mantels. One of the exceptions is the balusters of the front stairs, but this may perhaps serve as contrast. In the Ballroom, which is forty feet long and only nine feet high, there is no sense of lack of height because of the general proportion and the "scale" given by the windows, by the low lockers around the wall and by the small fireplaces.

The classical derivation of the details is as characteristic as their proportion. In the later Colonial period the styles came from the mother country and in a lesser degree from France, and even after the Revolution, despite the protests of the 100 per cent Americanized tradesmen, British importations still set the standard. Two centuries ago there were no professional architects and no trade unions, the houses were built by craftsmen who drew their inspiration from handbooks giving the woodworkers models of fireplaces, cornices, and the like (such as the volumes issued by Ashar Benjamin) and also from the near-by examples in buildings already erected.

The product, however, was from the beginning American for the craftsmen's personalities and environments modified even the imported examples they were interpreting, and the local materials affected the design. Wood was much more commonly used and stone and stucco far less frequently for exterior walls in New England than across the Atlantic. In fact British authorities recognize that early in the eighteenth century there was a reflex of influence from America on their architecture.

Certainly the clapboard walls and gambrel roof of the Wayside Inn are markedly indigenous.

The age of the building is clearly marked by the massiveness of the main structural members. The corner posts of the wooden framework are so large they project out into the rooms, and the floor supports are of oak, four inches wide, resting on heavy pine beams, not the light two-inch joists of to-day.

The floors were usually a single thickness of pine boards often eighteen inches wide, and were sealed by plaster between the beams below. Later plaster ceilings were placed below the beams in some rooms.

In the Longfellow chamber the main beams are only six feet two inches above the floor and the plaster another four inches; the upstairs hall way is six feet eleven high and the dining room only an inch or so more. Yet the general effect is homelike and not oppressive. Low ceilings mean economy in construction, warmth in winter and easy stairways.

The stairs are easy. From first floor to second the risers are eight inches high and the treads ten inches wide, not counting the nosing, or projecting moulding at their front. The rails, posts, and balusters of both front and back stairs are modern, those at the front of the hall commonplace and those at the rear copied from a house in Portsmouth, New Hampshire.

The masonry has the same massive character as the wooden framework. The cellar walls are of fieldstone as also the enormous foundations for the two central chimneys. Stone work supports not only the brick stacks and fireplaces—and their bulk can be realized by a glance at the floor plans—but the hearths also are solidly built up from below the cellar floor. These twin towers fully justify a visit below stairs to realize how prodigal of materials and labor the early settlers were in some respects.

There is also the "deep hole." It is not quite as mysterious as the name implies for it is the primitive, cold storage room, excavated three or four feet below the floor of the rest of the cellar and heavily walled with stone. Its depth and insulation assured an almost constant temperature, safe from the frost of winter and the noonday heat of summer.

The down stairs fireplaces are wide and deep

Photograph by courtesy of Jordan Marsh Co.

The ballroom, with its black painted panel, an ingenious device to prevent smoke stains from the candles showing on the ceilings. The three sheet tin chandeliers are genuine antiques but their pattern is more ingenious than beautiful

and draw admirably. The sides are practically at an angle of 45° which better diffuses the heat into the room but restricts the length of firewood. The larger openings are sixty inches wide and forty two inches high with a flue twelve by twelve. Some of the smaller fireplaces as that in Lafayette's Room are forty inches wide, twenty eight inches high, and have a flue twelve by eight. The apparent size of the fireplace itself is affected also by the mantelpiece which frames it and a comparison of the treatment in the Lafayette chamber with that in the Dining Room below is a noteworthy illustration.

THE SMITH'S TALE

THE metal work of the Inn, tells its story of naïve country craftsmanship in hinge and crane, in wall sconce and pendants for candle clusters. There are no intricate masterpieces of the locksmith's art, there are no crystal chandeliers or hanging lanterns of cylindrical glass with classic frames of brass such as might be found in the fine houses of Boston or Salem or in the grand mansions of Virginia. There are instead the light fixtures and the hardware of a rural ordinary of the Georges, Rex or Washington.

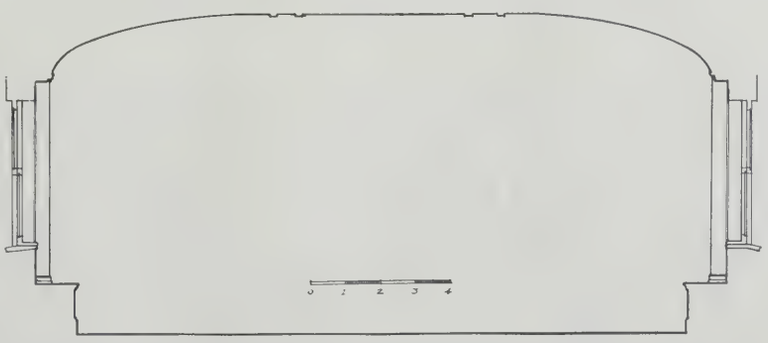
The earliest and crudest form of New England door-fast, the wooden latch with the cord passing to the outside has disappeared, though the phrase implying hospitality, "Leave the latch string out" still survives here. For protection, there is still on some doors, the bar reaching full across the door and resting in an iron socket at each side set in the door frame.

The first iron latches were simplicity itself, like that on the door from the second story hall to Lafayette's Room and then the thumb-catch was developed into the knob which turned instead of being pressed down and the bolt was made a part of the mechanism instead of being attached to the door separately. Such a model is just down the hallway on the door to Edison's Room. The knobs were diminutive, either round or oval and made of brass. The oval design was in use in America in the early seventeenth century before the English round knob was introduced. Later, the hinged latches were superseded by spring latches, which slid into a socket in the door frame and which were worked by knobs on both sides of the door. The earliest boxes were of iron but that on the door from the Parlor to Washington's Room has a brass box.

The front door is held up by a pair of strap hinges twenty-five inches long with gudgeons to drive in, while the door to the Bar Room has H L hinges, nicknamed "Holy Lordly hinges." The cupboard in the Parlor has H hinges, the third step in the evolution to the modern form, where the metal plates are no longer on the face of door and frame; it also has wooden buttons of a very early type.

The windows, except for the little casement over main entrance, are double hung, but without the cords and weights later introduced to counterbalance the two sash. The hooks and catches to hold the window are comparatively modern.

The light fixtures on wall and ceiling are mostly of sheet metal or light iron castings quite different from the sturdy pewter hand lamps or brass candlesticks. They are coun-



Silhouette section through the ballroom showing the curve of the ceiling up to the central panel and the low benches, both important factors in the general proportion

try made and well suited to a rural tavern. Some had polished backs to reflect a single candle, while others, like the delicate little sconce in the Parlor had a cup for oil and a circular mosaic of mirrors against the wall The spider-web chandelier in the restaurant is as exquisite as it is rare, but in the Ballroom above, the tinsmith's fantasy has outdone itself in the three hanging fixtures.

THE ANTIQUARIAN'S TALE

THE wood mantelpieces and the dados are varied but they are harmonious, and in character; to the student of design they are a delight but to the antiquarian a distraction. consultations with the carpenter who did much of Mr. Lemon's work affords a fairly reliable diagnosis. In the Bar Room for example the lower section of the plain dado of wide boards is undeniably old, but the mantelpiece was put in in 1895; the ceiling beams are old but were smoothed and stained less than a score of years ago; the bar itself is believed to have been installed by one of the Howes and the Tap Room cupboard door is worn through where the cork-puller was thrust into it to be ready at hand in the good old days.

In the Parlor and in Washington's Room the fireplace frames are originals but the overmantels new or newly assembled from old fireplace is delicious! There is a reproduction of the design in Kate Sanborn's "Old Time Wall Papers" and the statement that it was installed between 1746 and 1796. In the Valet's closet is the remains of a quaint stencilled border on the floor.

In the Ball Room the rail to the musicians' platform, and the mantels are new but the framed, black panel in the ceiling was put in long ago, partly as decoration but chiefly to keep the smoke from the candles from staining the plaster.

Almost all the doors inside and out have been replaced by "genuine antiques" saved from other buildings which have been torn

The Wayside Inn of today. The porch and dormers were added within the last thirty years and the private drive now takes the place of the main road which has been moved back. Compare this with the long-ago sketch on the opposite page

The artist may repeople the hearths with redcoats and peruqued colonials or derive inspiration for tomorrow's designs but the antiquarian will be only interested in chronology.

For a score of years Mr. Lemon enjoyed tinkering with the fittings to suit himself. In general he followed old precedents though over-fond of over-mantels and of mouldings a little large in scale or cut into square dentals a little out of keeping. Internal evidence, like the number of coats of paint, the character of the wood or nails or the joining and material and the dado in one case was put in about thirty years ago and in the other made up of panels from an abandoned church.

The greater part of the Dining Room is old, but in the kitchen the floor-boards and the vertical sheathing is not only new but not correct in form.

Lafayette's Room is almost untouched, in fact there is no mantel-piece at all over the fireplace. The canterbury-bells or bluebell paper is both charming and historic, and the little two inch border in darker tones below the ceiling and around the windows and down. Early doors were so thin that a century or so's wear in a public-house was about their limit. Most of the interior doors are four paneled, raised on one side and flush on the other. The front entrance is particularly noteworthy and is probably a hundred years old.

The signboard with the red horse, which now hangs on the front of the Inn, is the same which the oldest photographs show suspended from a post before the barn. Authentic records of its first appearance are lacking and at least half a century of weathering have

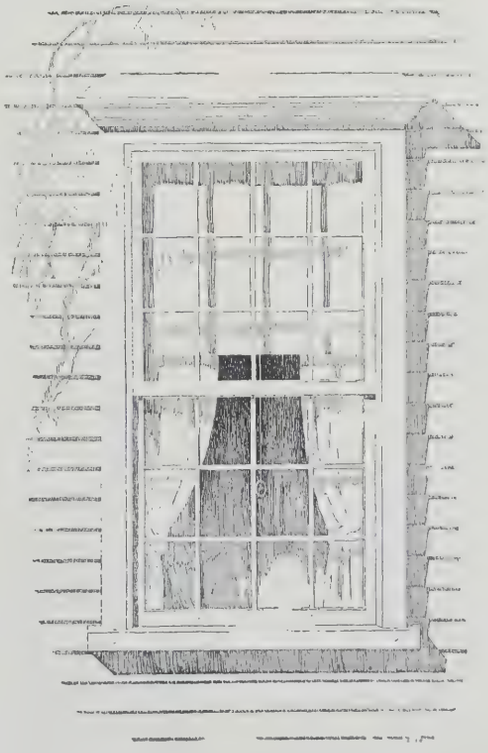
An old drawing of the Red Horse Tavern before Longfellow's poem had made it internationally famous as the Wayside Inn. The sign board has outlasted the giant Oak to which it is shown attached and the last of the covered wagons and stage coaches can only be found preserved as relics in the stables

obscured "internal evidence." A few years ago another Red Horse sign was obtained from a collector near Boston and is now at the Inn while claims have been made for still a third at Wellesley.

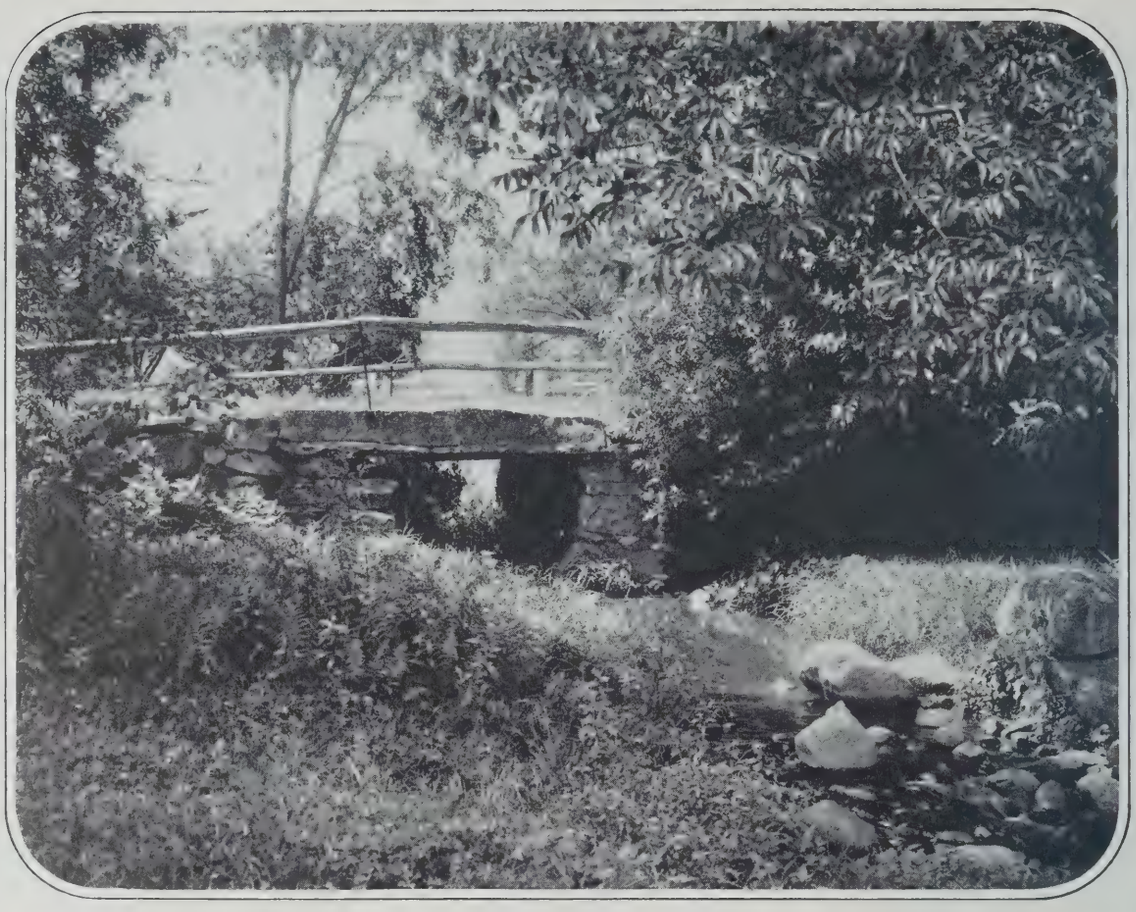
Even a richer field of research than the history of the signboard is open to the Antiquarian in the framework of the tavern itself. Closets off the rear hall show where the outside wall has been built over, the beams of the ceilings and the floor construction between the Longfellow and Parson's chambers indicate the addition, long since, of the second story at the rear and could the uneasy student of things-as-they-were but strip the plaster from the attic walls he would decipher the empty notches in the framework and date the method of jointing plates and rafters and so reconstruct the exact lines of the earliest roof.

But why worry? The quaint old structure is a picture of the past, it is not on trial in an evolution case. The Wayside Inn is at once a history book, a craftsman's museum and a pastoral lyric and Americans are fortunate indeed that this heritage is to be preserved to them.

To the left is a direct elevation of the east end as it was before Mr. Lemon's alterations. The gambrel roof which is so indigenous to New England looks much steeper when seen in perspective. The dot and dash line indicates what the internal evidence and the records suggest as the contour of the first lean-to roof



At right is a measured drawing of a typical window on the front of the Inn with the characteristic small panes. By referring to the photographs it will be seen that those on the front have twenty-four lights on first floor with eighteen on second floor while those on the side have only fifteen on both floors although opening into the same rooms



The Garden Setting of the Wayside Inn

Robert S. Sturtevant

Landscape Architect

THE setting of the Wayside Inn and its spirit of welcome are all that link the present with the past and yet this alone is enough to bring to its doors many travelers and to bring to their minds an appreciation of the past as it has been mellowed by the years.

As in 1700 when the crude house offered shelter to the scouts emerging from the danger of the near-by woods, the Inn still stands at the edge of the Sudbury "Meadows," overlooking broad fields but within bow-shot of the forest. It stood squarely on the trail to Marlboro, the last settlement until one reached the Connecticut and the West; and one can picture the cheer with which it would meet the weary runner bearing tidings of the massacre of Deerfield and the raids of the French and Indians. A tract of 130 acres was purchased from the Indians in 1684, only eight years after the massacre by Phillip of Pokanonet, and in these stirring times the first step of the pioneer was the clearing of a zone of safety about the new home. One wonders to what whim of wife or daughter we owe the preservation of the three Oaks which lend distinction to the present site. Though the Oaks are one of the characteristic trees of New England so great was the demand for ship timbers, for felloes and axles and for all sorts of building that large specimens are rarely found through the countryside. And yet we have no record that these three survivals possessed any special significance in the olden times.

The Oaks, the gently rolling meadows, the Oak woods, and the rise of Nobscot Mountain are still typical of New England; and the Inn still stands almost alone in its little valley half a mile away from what was once called the Parmenter place which sheltered the first builders.

In these early days the keeper of the Inn was a man of importance in the town, and the first How had well-placed himself on the main trail and a fair day's journey from Boston town. Wealth, however, did not bring leisure—the leisure that made the gardens of the sea-port towns even then a place of rest and beauty. There must always be a plenty of meat and drink for the many travelers; venison and hare, wild pigeon and duck from the wild, sugar from the scattered Maples, wild blackberries for preserve, elderberries and wild grapes for wine; while from the town came heavy wagons laden with rum and molasses from the West Indies.

Despite these demands upon their time one can well picture the gradual development of interest in growing things. The Inn was the center not only of news but of friendly bargain and exchange; the scouts of Indian days were succeeded by the farmer soldiers of the Revolution, by the raw recruits eager for service on the privateers of 1812, but many were husbandmen returning to their homes and as eager to bring some new seed or cutting as to display some more gruesome memento of their wanderings. Then as now there was a constant exchange of plants as well as of news and

we find frequent mention in old letters of the sending of some treasured slip or seed that was "much thot of in London" or newly brought from the Indies.

Gout-weed, Parsnip, Dill, Coriander, and the various Mints had their uses among the pioneers and are now naturalized; but the familiar Dandelions, Daisies, Queen-Anne's-lace and others that now spangle our fields with color were to be found only near the seaports where ballast from the ships was dumped. Hence along the brook beside the Inn spanned by the old culvert of arched stone and half hidden by the growth of Elm and Alder the weeds of to-day supplant tangles of Golden-rod and Asters, Thorough-wort and Beards-tongue.

Even in the eighteenth century, gardeners were familiar with plants from other climes. The year 1789 saw the first introductions from China into England and surely the clipper skippers of the new country were not less advanced. In fact in one of the first plant lists published by William Prince (1725–1802) you will find listed fruits and flowers and vegetables that even now are not easily to be obtained in our big modern nurseries. In the early nineteenth century the lists might offer 350 varieties of Apples, 350 of Dahlias, 800 of Roses, 200 of Plums. There was no dearth of plant material when the customs of the times gave our forebears time to develop their interest in gardens of herbs or flowers. The old-time garden might contain all but our introductions from Japan and the originations of our modern breeders, but in a new land, mere living gave little opportunity for the development of the gentle arts.

In the long winter days the craftsman might study his plates and work out details of furniture and interior finish, but with the season of growth, the planting for food, its care and harvesting restricted his opportunities for flower gardening as much as it does to-day.

Hence, perhaps, the Inn might have its Lilacs or Tawny-orange-lilies (both striking in novelty and easy to grow) but the garden plot would be small and largely restricted to the needs of the kitchen and linen chest. The list of culinary herbs was extensive and embraced many of our common hardy perennials, but to restrict ourselves in our modern old-fashioned garden to such an extent would be to deny us the beauty of flower that is actually available.

It is not from the selection of plant material but from its placing that we gather that much-sought-for atmosphere of an old garden. Some of the exotics would naturally spread and hold their own. It is very probable that the clumps and hedges of Lilacs that are so delightful about the present Inn date from its earliest days. The orange Hemerocallis fulva in a tangle by the brook seems equally at home, but of the once neat beds of Dill and Mint, of Sweet Majoram and Thyme no trace remains. Nor is there sure record that the inn-keeper raised his own Apples and berries, his own Vine and Fig. In fact, he was no more provident than his country counterpart of to-day and then, too, the English colonists preferred a meat diet. We find constant references to the women culling greens under the watchful eyes of the sentries, to the gathering of berries of divers sorts but rarely did they cultivate other than the barest necessities of grain. The first Sweet-corn was introduced into Massachusetts in 1779, but fields of the field-corn, of Kidney Beans, and Pumpkins and Squash were discovered by the first explorers while Wheat, Barley, Oats, and Rye were among the earliest of introductions. The common Potatoes did not become at all common until late in the eighteenth century and even then "were despised by rich and deemed only proper food for the meaner sort of persons." Although all sorts of native roots and sprouts and barks were used of necessity, our common vegetables were still rare well after 1800.

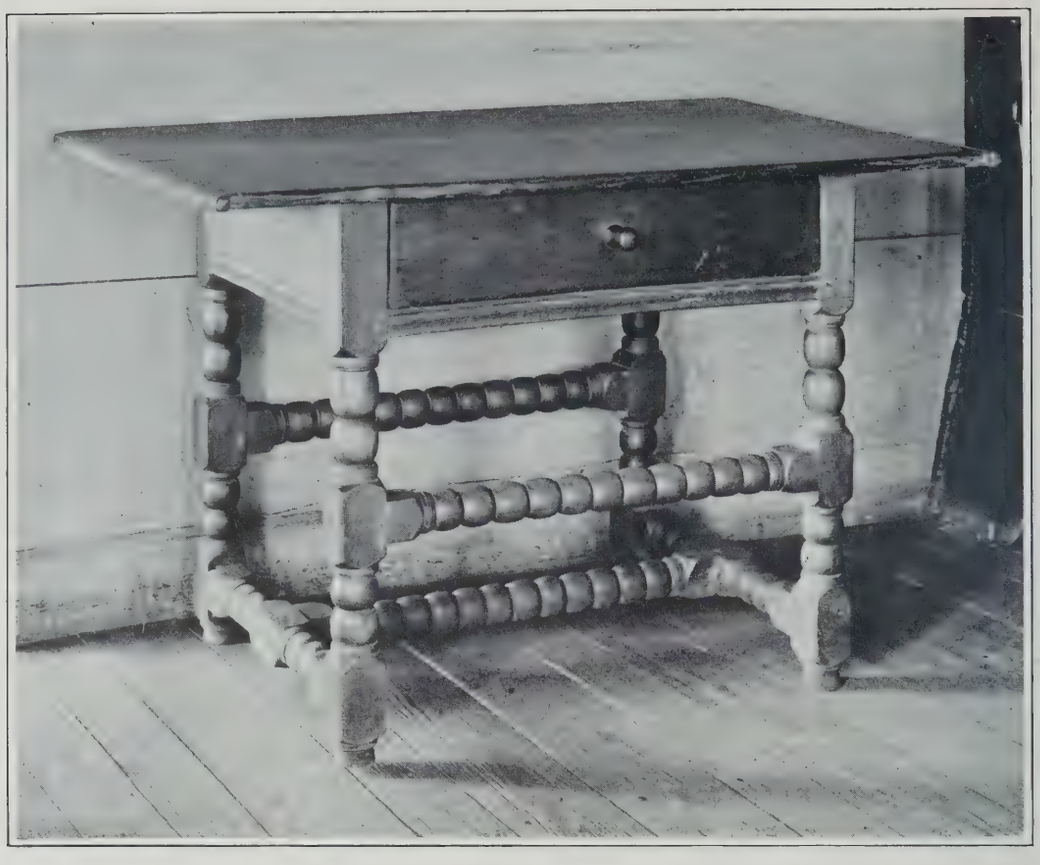
Though there was an Indian orchard in the near-by town of "Marlberg" there is slight indication that the succeeding generations of Howes did anything except develop their trade for man and beast. It was not until 1900 or later that the present garden with its wall of brick and memorial to Longfellow was made along English lines and it was in the same period that the main highway was curved out away from the house. Before that time, the road ran a slough of mud in earliest spring, ankle deep in dust in summer and such efforts as there may have been in planting suffered from the wanderings of man and horse.

In any attempt to preserve the spirit and atmosphere of our Colonial days it is most difficult to remember that the practical needs of everyday life consumed the energy of the settler. Clearings were made in the primeval growth, the natural meadows were burnt to keep down the encroaching brush, the forests were cut as needed, only an occasional tree was saved for shade or as a matter of association. The very fields were made large or small as the need for disposing of the stones required. The modern wall has a purpose as a boundary or as a decoration while the ancient walls though often marking boundaries were primarily a place of disposal for the stones that made cultivation difficult. In Sudbury the settlers were fortunate with their open meadows but elsewhere what an expenditure of labor is represented in these old walls. Sometimes they are mere piles of stones, placed one upon another but often they are double faced and wide, the centers packed with the smaller cobbles. Big boulders were laboriously drilled and split and huge pieces hauled to the house to form neat hearth-stones, thresholds or well matched

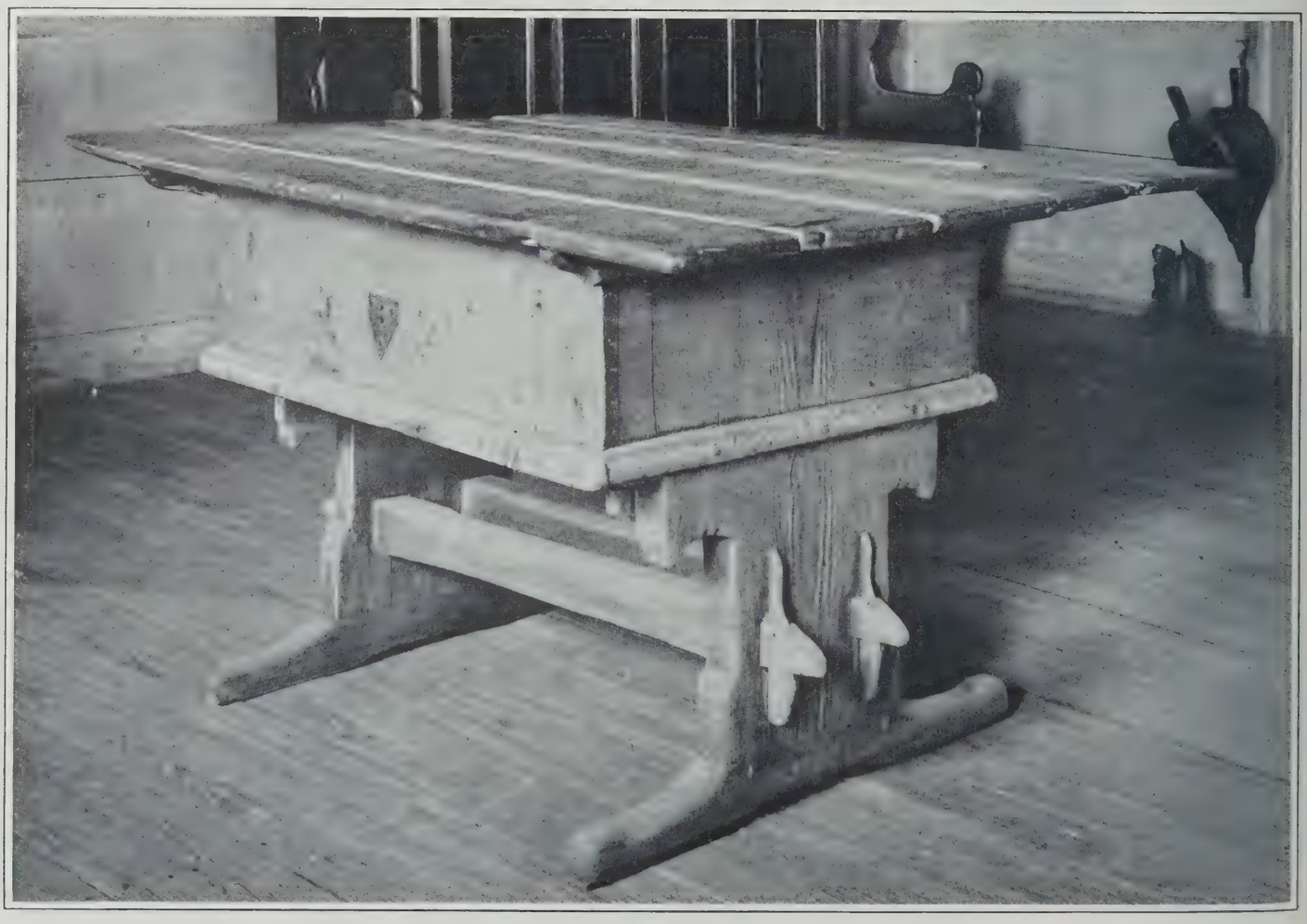
Present-day expression of the old fashioned garden, a reminiscence of the ownership of Mr. Lemon

(Continued on page 484)

Pine and maple tavern table with unusually good sausage turnings. About 1700 (at right)



"The old granddaddy of them all, made entirely of pine, except for the trestles which are of oak." About 1675 (below)



Furniture and Furnishings of the Wayside Inn

Sarah M. Lockwood

Author of "Antiques"

HAVE you ever sat dreaming and had the ripest, richest plum on your dream-tree fall in your lap? That is how I felt when they asked me to go down to South Sudbury in Massachusetts and write about the furniture in the Wayside Inn. The Wayside Inn, mind you! The old place where Washington and Lafayette and Longfellow and hosts of lesser lights, these last two hundred years, have sought the shelter of its patient roof. And now I am here, taking my place in the long procession.

I am in a little room up under the eaves, a room dainty in flowered paper and white dimity, with a floor of wide pine boards painted a jolly yellow and a strewn with gay hooked rugs. Tucked under the slant of the roof is a huge maple four-poster—the kind they call "half-headed" because the posts are cut down—covered with a simple white tufted spread; a fat jolly bed, as comfortable looking as the lap of an old nurse. Opposite is a maple chest of drawers with a small and ancient mirror in a convex walnut frame hung above it. A rakish slat-back chair on short rockers stands on one side and an excellent braced Windsor is on the other. My writing table is of pine of the old tavern type with such slender ankles above its small Dutch feet that I cannot resist glancing at them continuously. Another tavern table serves as a dressing stand, and through the tiny window panes one looks down into the walled garden with its brick paths and at the ancient Elms that lean above it.

That is the type of room the traveler finds to-day at the Wayside Inn; a room filled with the peace and quiet of older and less hurried days, a room immaculate and chaste, dignified in its simple decency. It is hard to believe that cowering unobtrusively in one corner is a perfectly good steam radiator and that the simple sconce hanging on a nail above the bed contains an electric light and not a candle.

Now that we have taken our hat off, so to speak, let us go down into the old part of the Inn and see what the traveler found in the bygone days. Before we do that, however, we must make clear that the furniture there, with a few exceptions, is not that which filled the Inn when Washington and Lafayette were here. Unfortunately this was dispersed after the last landlord, Howe, had died and the contents of the old house sold at auction in 1861. In Longfellow's diary . . . 1861 . . . we find this entry:

> "Drive with Fields to the old Red Horse Tavern in Sudbury—alas! no longer an inn, a lovely valley, the winding road shaded by grand old oaks before the house. A rambling, tumble-down old building, 200 years old; and 'til now in the family of the Howes who have kept an inn for 175 years. In the old time it was a house of call for all travelers from Boston westward."

For many years after that, the house, empty of its old companions, fell into disuse until in 1896 Mr. Edward R. Lemon bought it and set about to repair and refurnish it with old pieces similar, perhaps identical in character, to those that once must have been in them, and the old house took on a second blooming.

It is ridiculous to think that the only furniture suitable to an old house is that of its beginning. Of course, as the years went on the furniture was shifted about, old pieces replaced, newer types brought in. The Inn was a living thing changing with the years and it absorbed all changes into a perfect harmonious whole, just as to-day it has absorbed the hot water system, the telephone and electric light. After all, there are some things an old house quite properly balks at, and a large gilded radiator is one. Here, however, one is under the happy delusion that the great open fires are giving all the heat.

The maple butterfly table with the fine patina, and interesting feature in the notched wing curve. In the dining room

THE LOWER HALL

When you have turned the polished handle on the big front door you step into a wide and gracious hall that runs through the center of the main or what is called the old building from front to back. Four of the most interesting rooms in the house open into it, right and left. The wide pine flooring in most of the rooms in this part of the house antedates by many years the recent restorations. Throughout, except where it has been scrubbed clean, it is painted the bright yellow so much liked by Colonial housewives.

The walls of the old rooms, with one exception, were papered by Mr. Lemon some thirty years ago, and at first I was at a loss to know where he had found the amazingly good designs that cover the lower floor. They are all similar in character; a hunting scene in small medallion repeats; another of little thatched cottages and busy figures, and still another of delicious bucolic flavor, the Apple Harvest where the fruit is being gathered into baskets and in the background the ancient mill wheel turning in the stream. All of the colors of these papers, the browns of the woods, the blue of the sky and streams, the red of the apples and the hunting coats have faded now into a mellow loveliness, quite perfect as a background for old furniture. Its excellence was explained when I learned that a lady who had become much interested in Mr. Lemon's efforts, used every year when she went abroad to bring back from England a gift of old wall paper. It seems to me a gracious thing to have done.

The first thing you notice as you step into the hall is an old corn sheller hollowed out from the root of a huge tree with a rack across the bottom for the corn to fall through. They use it to-day for an umbrella stand. Along the wall are several bannister backed chairs, some of them with fine carved top rails, turned legs and stretchers, and with bannisters of split turnings with the smooth side to the front. They are all early chairs, about 1700, rather high and quite proper in the Hall. Between them are several tables, two of them little tavern tables of maple with pine tops, the legs turned and stretchers plain. Further along is a fair sized maple oval topped "butterfly" with nicely turned legs and unusually delicately shaped wings, such a table as would be the "apple of our eye" if you or I owned it, but in this treasure house only one of many.

Opposite is a little Dutch table with drop leaves and polite duck feet. It, too, would be exceptional anywhere but here, but when we have real treasures to deal with we cannot spend too much time on pieces that are only extremely good. We may as well say here that not one piece in this house, no matter what scanty attention we may give it, is lacking in merit. They are all worth study. The Wayside Inn is a fountain of inspiration, especially as all the pieces are accessible and in actual use.

Under the window in the end of the Hall is one end of a lovely Hepplewhite dining table with delicate tapering legs and spade feet, a nice bracket-like bracing between the apron and the top of the leg. On it is a small pine Bible box, the front conventionally carved. Date about 1670.

But we can no longer keep our attention from the most important piece in the Hall; a fine big chest with an oak frame, a thick pine top hinged to the back on wooden pegs, and with three painted pine panels in the front, the middle one framed by molding into an octagon. The painting on the panels now is very faint but it must once have been a bright design of vines and flowers. The owner's initials, too, are painted in the center of the long shallow drawer below. There is no carving on this chest, it being decorated with moldings to form panels and with split turnings applied to the stiles and between the panels. It is probably a Dutch chest—date 1660-80.

On the walls of the Hall are numbers of mirrors and framed documents. Above the little Dutch table is a rather large walnut Queen Anne mirror, the glass in two parts, of course, the upper part having a nice scalloped edge where it overlaps. The delicate sawed cresting has the usual openwork gilt carving in the centre and there is a gilt beading on the inside of the frame next to the glass. We also see a framed bill of sale of the auction of the furniture of the old Wayside Inn. Would that it had never been printed! There are old photographs of the Inn, deeds of sale, engravings of Colonial characters, and a certificate of membership in the Cincinnati Society signed by George Washington. There is a little flax wheel in one corner. These and other details in the way of pressed glass lamps, bits of pewter, and so on, give the Hall the friendly look an old fashioned hall should have, but it is, after all, only the gate-way to the rest of the house.

THE BAR ROOM

This is the most fascinating and interesting room in the house, and we shall spend a good deal of time there as one does when living at the Inn. It is the general meeting place. One goes there in the morning to read the papers and chat about the weather, one lingers there stretched out in a big chair before the fire, musing of old days and ways, reluctant to go to bed. There is something in the snug walls and low ceiling, in the wide fireplace and the generous strength and proportions of the furniture that must always have drawn people to this room.

It isn't a large room, and the most conspicuous thing in it is the old bar in one corner, just a partition built of pine and rounded off at the corner. The upper part is a simple grill (or portcullis) of pine spindles, and in front where the bar proper is this can be lifted up and hooked to the ceiling, out of the way for business. Behind are some shelves filled now with a nice collection of old blown glass bottles, pewter tankards and several exceedingly good flip glasses that look like Stiegel. On the wall hang the flip irons that were heated and thrust into the drink. The old till is there and a pine desk box is fastened to the wall. The business of the Inn is carried on over this bar. I mean you pay your bill there and buy your picture post cards.

High braced-back Windsor chair, with out-flaring scrolled arm rests. The rockers have been added About 1750

Next to the bar, your attention is drawn to the great open fireplace, wide and black, with swinging crane and iron pots. The simple iron dogs carry heavy logs, and around about and on the mantle shelf are the things that always collect around the fireplace, the bellows and tongs and bright brass warming pan, a wooden boot-jack and, a pair of wafer irons, a wooden pipe and tinder box with scissor-like pipe tongs beside it, tin candle sconces, and a crude iron rush-and-candle holder made when people still used rushes dipped in oil for general use but had added a holder for the occasional candle. And sure enough, there beside it is the shallow iron ladle with the long handle for melting the grease into which the rushes were dipped. Let us say here that all the simple lighting apparatus, the rush holders, the little "Betty" and "Phoebe" lamps for oil, these rush-and-candle holders and the simple iron candlesticks that hooked to the backs of the chairs or stuck in the wall were very early, belonging as they did to the colonists who first came over, people without the tallow for candles, who used animal fats, the flaring pine knot and the rushes from the river bank for lighting purposes. They date anywhere from 1620 to 1700.

At right angles to the fireplace, against the wall is a fine pine settle, painted black, with a paneled back and nicely shaped end-pieces finishing in curved arm rests. Above it hang two prints of much interest, having been "Engraved, printed and sold by Paul Revere, Boston," that same Paul of the Wayside Tales, the fiery Boston silversmith who before the Revolution turned his hand to engraving inflamatory patriotic cartoons with considerable effect. One of these is a sanguinary picture of the Boston Massacre on March 5th, 1770, with the redcoats firing on the patriots whose blood stains the cobble stones. Beneath are the names of the martyrs and a memorial verse; the other "A View of Part of the Town of Boston, in New England, and British Ships of War Landing their Troops, 1768." Both prints are exceedingly rare and valuable.

Under Paul Revere's prints is an oak chair-table with a round top that tips up, revealing a chair on four stout square legs and with curl-over arm rests. Underneath the seat is a shallow drawer; a good example of the type of space-saving table that preceded the gate-leg and butterfly. About 1670-80. Near it is a delicate loopback Windsor chair painted black, with a little notched herringbone carving around the top rail.

On the south wall facing the fireplace are three good tables; one butterfly, one tavern, and a gate-leg. The butterfly, painted black, is probably birch; the tavern, with pine top and maple legs, has unusually good sausage turnings on the legs and stretchers, and the maple gate-leg is extremely good, having a wide trestle base and clumsy square supports that swing out to hold up the leaves. This is a very early gate-leg, not a minute after 1700. There you have three fine examples of early tables all in a row for comparison.

But turn around! Here in the middle of the room is the old granddaddy of them all, the table that, to my mind, is the most interesting piece in the house; well—maybe! At

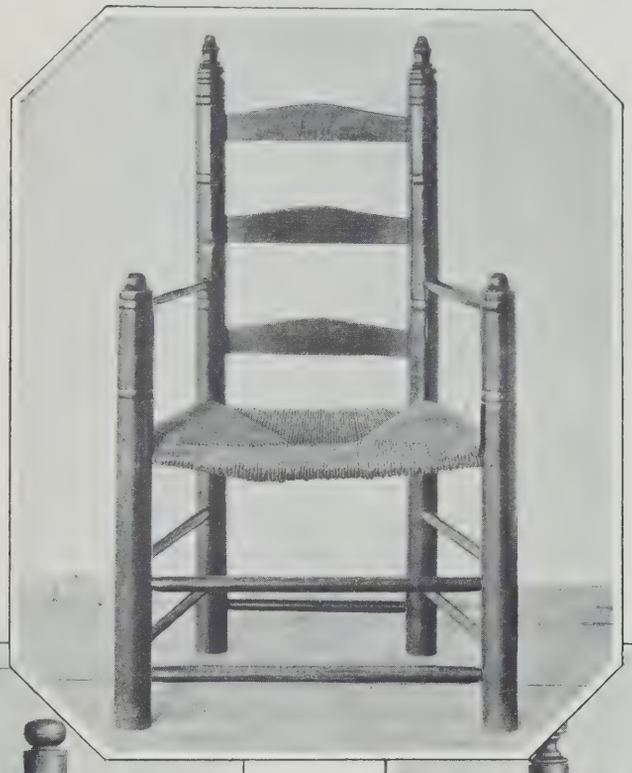
any rate it is an old beauty made entirely of pine except for the trestles which are of oak, the whole thing scrubbed sand white and polished to the quick with use. Perhaps that is why I like it so much. It shows such hard and faithful service. The whole thing rests on thick oak trestles with wide spreading bases braced through the centre by two heavy stretchers that extend clear through the trestle ends and are pegged outside securely by two stout wooden pins. No wobbling there! Resting on the trestles and overhanging them by about six inches is a deep box about thirty inches long by twenty-five wide and nine or ten deep, a good sized container evidently meant for the more precious supplies, since access to it could only be had by swinging up the heavy top. A big iron lock further aided in making this a real strongbox. Beneath the box we find grooves that must once have supported an extra sliding shelf, which, when pulled out, further extended the area of the table. The top, about fifty inches long by forty wide, is made of four wide and heavy pine boards that show so appealingly the marks of hard work long continued. There are cracks in the top to-day and places where mice have gnawed for the crumbs that would get into the knot holes in spite of the housewife's care, but otherwise the old table is in as good condition as the day it was made, all of two hundred and fifty years ago. It is in constant use at the Inn. It holds the newspapers and the big pewter bowl of apples, not heavy tasks to be sure, but enough to make it feel that it is still in the game and holding its own. That is one thing I like about the Inn; the old pieces are in actual use. It has always seemed unkind and unfair to me to place a "Do Not Touch" sign on old furniture that has known the caress of human hands these many years.

Three exceptionally good chairs are in use in the Bar Room. One is a massive broad seated big "Pilgrim" slat-back, the three slats curved at the top, the finials and posts simply turned, the arms straight. One can just see a stern old Pilgrim father sitting in it, his big fist resting on the front posts. One still does occasionally! Date, say 1650.

The second big chair is similar in character and in construction except that the back is the typical "Carver" type with crosswise turnings, top and bottom, and three turned spindles between. It is not as heavy as the original "Carver" that belonged to Governor Carver of the *Mayflower*, but it is a stout chair just the same. The date, too, is around 1650.

The third of these heavy chairs is a rarer type than either of the others, being a "Carver" side chair, without arms. This chair dates, of course, the same as the others, and all three of them are made of oak, the slats of the "Pilgrim" being ash or perhaps "slashed" oak.

This slashed oak, by the way, is interesting. I had always supposed that most of the slats in slat-back chairs were made of that bendable ash, but down at the Wayside Inn is an old man who for thirty years or more since Mr. Lemon's time, has been pottering about making careful restorations to the house. It is he who put in the wainscoting and the paneling above the mantelpiece, the beautiful arches in the hall



Above, slat back pilgrim chair 1650; At right, Carver type arm chair; and at left, side chair. All about 1650

Chair-table in maple. An early space-saving type antedating the Butterfly and Gateleg types. 1675

and the delicate stairways. He may not be well up in the patter of the antiquarian, but he knows woods and the construction of furniture from A to Z. It was he who told me of this slashed oak; that more often than not it was this and not ash that was used for slats in the old days. Of course, I believe every word he says about woods, willy-nilly. He also told me that he is going to make me a Bible box when he gets time, and, he added looking at me very straight over the tops of his "specs," "put a Bible in it, too!" And now for the most interesting object in the Bar Room. It hangs on the wall in an iron bracket—an old wooden sap bucket. Printed on the bottom of it is this: "Made for and used by John Coolidge, an original settler of Plymouth, Vt., who died in 1822. Used also by Calvin Coolidge in the sugar lot when he was a boy at home." Beneath are the names—Calvin Coolidge, 1924, Grace Coolidge, John C. Coolidge, Henry Ford, Harvey Firestone, Thomas A. Edison, and Edward P. (Prince of Wales).

Sometimes in looking at worn old pieces of furniture we think of them as curiosities, things of a dim far-away past, very interesting in their way but quite out of step with our modern lives. That really isn't the way to look at old furniture. That it is old doesn't count for much; the stones in the street are as old as the world itself; but the fact that with its aid we can revisualize and understand what this nation stood for from its beginning, *that* is important!

This crude wooden bucket then isn't just an old sap bucket. It is a symbol of something far deeper; a symbol of the hard work, simple living and indomitable purpose that gave us this nation; a symbol made quick to-day by the touch of living hands.

THE PARLOR

But we have been too long in the Bar Room and must go across the hall to the Parlor, the scene of Longfellow's "Tales." The gracious room must look to-day much as it did then, and no better description of it can be had than that written in "The Prelude."

In the center of the room is a large gate-leg table, maple throughout but stained to look like mahogany. It is in perfect condition and the turnings on the legs are fine. It is a later type than the gate-legs described so far. This useful and graceful table was popular for many years—is yet for that matter. This one probably dates from about 1730 to 50. Another little gate-leg stands folded against the wall and near it is a charming toddy table of mahogany with slender Dutch legs and tiny feet. There is a raised rim around the rectangular top, and the little slides that slip out from either end are thoroughly decorated with the rings left by hot toddy glasses.

In one corner is a mahogany Sheraton bureau-desk with the drop-down leaf on compass hinges, the drawers outlined in broad maple inlay. The interior is a simple arrangement of drawers and pigeonholes with a small door in the center concealing a quite obvious secret drawer. This desk once belonged to Daniel Webster as did the tall bronze Astral lamp that stands upon it. Near the desk is a Sheraton flap-top table in mahogany inlaid with maple, and beside it is a wooden candlestand on a crossed base painted black, picked out in gold in imitation of the lacquer so popular around 1725.

Along the wall is the old spinet on whose ivory keys the moonlight played "inaudible melodies", and above it we find the cast of characters in the "Tales" written in Longfellow's hand,

Landlord . . .	Lyman Howe
Student . . .	Henry Ware Wales
Sicilian . . .	Luigi Monti
Spanish Jew . .	Isaac Estredri
Theologian . .	Daniel Treadwell
Poet	Thomas W. Parsons
Musician . . .	Ole Bull

Framed portraits of these celebrities are grouped on the wall.

In the north wall is a simple fireplace with paneling of a later day than the mantelpiece and wainscoting. In the paneling is a framed reproduction of the Howe coat-of-arms, and on either side in frames are the original panes of glass scratched on by that "great Major Molineaux" in 1774. A copy of the verse in Longfellow's writing hangs near. On the mantle shelf are a pair of good pewter whale oil lamps, a little "Betty" and its sister, "Phoebe," the "Phoebe," by the way, being much like the boat-shaped "Betty" except that it has a drip pan beneath to catch the oil.

A six foot Sheraton sofa with delicately reeded legs, a wide mahogany top rail and the typical down-swinging reeded arm-rests stands against the east wall. Above it hangs the portrait of the worthy Lyman Howe, a bachelor and looks it. His school reports, curiously decorated in fine cut-work, reminiscent of the silhouette craze, testify to his all-around excellence.

The chairs in the room are five Queen Ann walnut ones, and three mahogany of what we may call late Chippendale influence. There are no easy chairs. In fact, the whole effect is one of simple formality. One would not sprawl here in a great "Carver" before the fire with a hot toddy in one hand and a pipe in the other listening to tales of the open road. One would sit upright and listen politely to

Miss Jerusha Howe play the "Battle of Prague" on the spinet.

WASHINGTON'S ROOM

Just back of the Parlor is the bedroom called Washington's. Probably Washington never slept there, although he is known to have lunched at the Inn. Back-to-back with the one in the parlor is a similar fireplace, mantel and paneling. An unusually graceful wire fender with a curved brass rail is before it, good fire irons with brass steeple tops, brass tongs in brackets on the wall, all very bright. A small walnut mirror with sawed scroll work, decorated in gilt, hangs above.

Beside the fender is a most interesting tiny pine cradle that looked, at first glance, like a doll's. It is beautifully made with three carved medallions stained red and black on each side. Three triangular openings, almost heart shaped, on either side give it delicacy and aid in lifting it, while four knobs or buttons, two on each side, are obviously to secure the fastenings that held down the blanket. On each corner is a tiny rakish post about six inches high ending in a little round knob. An adorable piece! I cannot believe, however, that it is a doll's cradle, although dolls' furniture in the old days was often astonishingly well made. But there is something about this that looks like the work of a very new and very fond father. More than that, there are five most practical and convincing holes bored in the bottom.

Near the bed is another cradle that might have been made by the same father for, say, the sixth child, a big, strong and crude affair with no fuss about it. Four stout square uprights of maple are pinned through the wide rockers with wooden pegs, the wide side and end boards are pine, scrubbed snowy white but without one speck of ornament. Both are very early—not later than 1700.

The big "Field" bed is of maple with the slender foot posts reeded in the Sheraton manner. A knotted fish-net canopy with lovely points is flung over the sprung top and the spread is of old English glazed chintz in soft browns and reds, so lovely with maple and with the English paper we have spoken about.

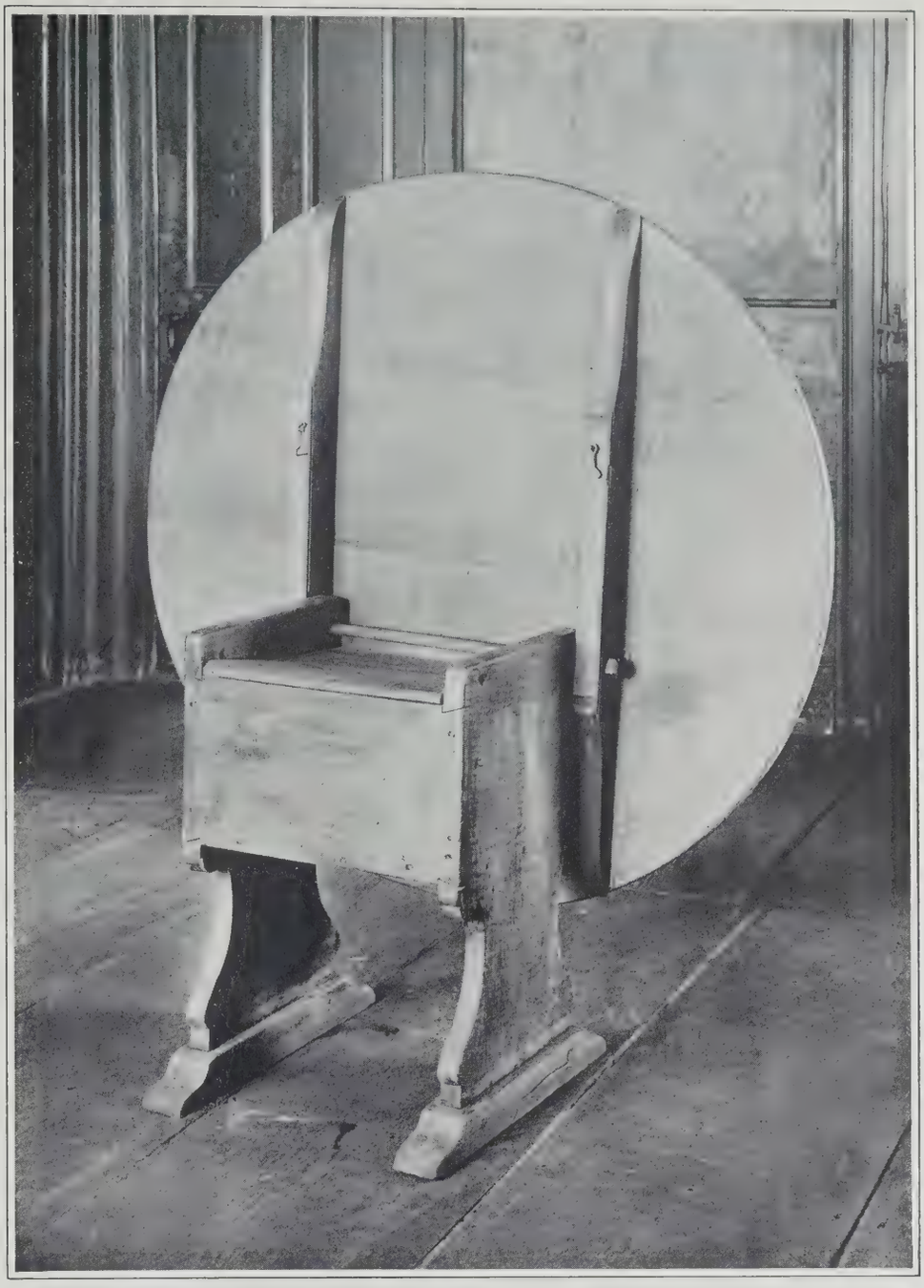
A remarkable high braced-back Windsor with out-flaring scrolled arm rests, an almost round solid seat, and the top rail ending in two pert up-standing ears, is near the bed. Short rockers were added to the spraddling legs when the chair was well along in life, say about 1750. Another dainty comb-back Windsor has the top rail ending in little scrolls and scroll turn-over grooved carving on the ends of the arm rests.

On a maple Dutch table is a Bible box of oak with a beveled top and fine tulip carving on the front. An extremely good piece. Date 1690. Inside is the old Howe family Bible with records of births and deaths. It was my admiration for this Bible box that inspired the old carpenter to say he'd make me one. "Well, yes, it's nice enough piece of work, but I can't see such value in it. Why, we've had people offer us a thousand dollars for that box. Think of it! I could make one just as good if I had time." And no doubt he could. After all, these pieces before which we stand in such reverent awe were the work of just such hands as his.

The other tables are a tavern stand of maple and pine which holds a good pewter ewer and pitcher, and a small maple candle stand with a square top and tripod snake feet, but the most interesting piece in the room, outside of the tiny cradle, is an early pine drop-front desk. The little thing rests on a maple frame, fitting inside a shallow molding around the top. Two little slides pull out for the slant lid to rest upon, and when it is down we see a charming arrangement of small drawers and pigeon holes and a sliding panel opening into the box-like well below. This piece is a perfect example of the transition between the desk box and the drop-front desk, after the box had been placed on a frame of its own and before the space below had been filled in with drawers. Date 1700. In perfect condition.

Another fine piece of about the same date is the walnut William and Mary tallboy. This typical piece has the six ball-and-trumpet turned legs, four in front, curved stretchers, tear-drop handles and straight top.

On the wall above the old Bible box is a walnut mirror, the glass with a shallow bevel, and the frame with sawed and fretted extension top and bottom; a later type than the ones with the glass in two parts. About 1750.



A hutch table entirely of maple, second only in interest to the one of similar type illustrated on page 447. About 1675

THE ORIGINAL DINING ROOM

We cross the hall into what was the old dining room. This can also be entered from the Bar Room through a small passage called the Tap Room. There is nothing extraordinary about this little cubby hole except the amazing number of times the bottle opener must have been stuck into the cupboard door to make such a big hole in it. There is a collection of flip glasses, Bennington tobies and blown bottles on the shelves now, and the walls are papered with bright scenes of an English coaching party with verses beneath, descriptive of its progress:

"Stop, stop, John Gilpin, here's the house!"
They all at once did cry.
"The dinner waits and we are tired."
Said Gilpin,—"So am I!"

Lighting Appliances of Other Days

1. Pipe tongs
2. Phoebe lamp (double decker)
3. Rush-and-candle holder
4. Betty lamp
5. Pipe tongs
6. Betty lamp on sliding standard
7. Pewter whale oil lamp
8. Paul Revere type lantern
9. Rush-and-candle holder on wood block base
10. Pipe and tinder box

Through the swinging half-door in to the dining room we find the fireplace back to back with the one in the bar room, and with the same familiar things around it; warming pans, tinder boxes, "Betty" lamps, and so on. One of the big black pots hanging on the crane has a long handle for convenience in tipping without removing it from the fire.

The most important piece of furniture is a "Hutch" table, the most interesting of the so-called chair tables. This one is made of maple throughout, the large round top in only two pieces. The top swings up on a long wooden pin, revealing a "hutch" or box supported on two wide and firm trestles. This fine table is second only in interest to the one of similar date and construction in the bar room. It is surrounded by several good Windsors, one with the back tilted for the "lazy sitter," and it is set ready for a meal with pewter plates and porringers, horn handled knives and two tined forks and rat-tailed pewter spoons.

Between the windows is a pine dresser with a cupboard below and a display of pewter on the open shelves. Against the wall is an exceptionally fine maple butterfly table with a fine patina on the oval top and an interesting little notched break in the sweep of the wing curve that is usually unbroken. Opposite is a large gateleg table with well turned legs. It would easily seat eight. There is a small and charming courting mirror above it, the beveled pine frame painted blue and gold and a tiny picture in the cresting.

THE OLD KITCHEN

Through the dining room we pass into the old kitchen, a room almost twice the size of any of the others, the walls paneled in stained pine recently put up and with an immense brick fireplace with a Dutch oven along one side. This is the room in which the drovers ate at a long trestle table while their "betters" dined inside, and a jolly time they must have had. A crude pine settle is at right angles to the hearth, and a "T" base candlestand beside it bears an iron rush holder in a heavy wood base. Opposite is a little two-slat two-seated wagon chair, and down the length of the long trestle table set with wooden trenchers and pewter are numbers of three-slat kitchen chairs. A large pine dresser beautifully restored by my carpenter friend, has big cupboards below and open shelves above with fine scalloped, what he calls, "cheeks." On the shelves is more pewter and some curious wooden canteens for water. Another fine pine cupboard, scrubbed snowy white, without shelves above but with three drawers and two wide doors below, holds an appealing assortment of housewife's tools, her rolling pin, butter paddles, wooden spoons; in fact, the kitchen is filled with these things. Here is her butter churn and candle mold, her soap kettle and spinning wheel, her mixing bowls and iron pots. One cannot look at these homely, hand-worn tools without a pang of admiration and respect.

THE LONG DINING ROOM

But after all we must get on in this hurrying world. Now for the Dining Room that is in use to-day. It is down the hall past the second staircase. To-day it is filled with small tables and Windsor chairs and there you have the simple but delicious home cooked meals that are served at the Inn to-day. There two huge mahogany Empire sideboards in the room, one with brass mounted pillars and claw feet; the other the usual ponderous thing with a long drawer and two wide doors below, the posts heavily carved and ending in bear's feet. And that is all there is to say about this pleasant room. Now we will go up stairs as we have been eagerly waiting to do this long time.

Photograph by courtesy of Jordan Marsh Co.

"The fire-light * * * on the old spinet's ivory keys played inaudible melodies"

THE UPPER HALL

The sun is pouring in, turning the yellow pine flooring to pools of gold. If I were a child (and I wish I were!) I should hop over the gold waters from one to the other of the gay Hooked Rug Islands to the tiny maple chair awaiting the intrepid traveler at the end of the hall, but being, so to speak, grown up, we shall have to do our exploring more sedately.

There are several excellent chairs in the hall of the heavy "Pilgrim" slat-back type and the Dutch yoke splat-backs. One huge five-slat "Pilgrim" with maple arms worn to a wonderful patina must once have had a bar across the front, like a child's high chair. The holes had long since worn through, leaving only grooves on the underside of the arm ends, but although I looked and looked I could not imagine why that bar had ever been there. Did it once support a writing shelf, or was it slipped through to confine some rambunctious Pilgrim parent to his place? The grim old chair gave no sign.

There were some fine walnut mirrors on the walls, one with the faint beveling in the glass following the shape of the frame and with a charming flower design cut in the upper half, and another with a deep convex frame and a remarkably high and elaborately carved cresting, like a Spanish comb.

There is a fine needle-work picture, "Sacred to the Memory of the Illustrious George Washington" on the wall; and an embroidered sampler by Eliza Ring, Aged 10—which discloses the sentiments of the young of 1808:

"Next to God dear parents I address,
Myself to you in humble thankfulness
For all your care and pains on me bestowed
And means of learning unto me allowed
Go on I pray and let me still peruse
Those golden paths the vulgar never knew."

With such a start as this can one be surprised that the Victorian Era was what it was?

But there are two fine pieces in the hall that need all our attention. These are two chests, one a Connecticut chest and the other a so-called "Hadley." Nowhere could one find a better opportunity of comparing these types face to face than right here. They are both fine examples and must have been made within a few miles of each other at about the same time—1700.

The Connecticut chest of oak with a heavy pine top is a big one with a deep box and two long drawers beneath. It stands high on plain feet which are the continuation of the stiles. The three front panels are carved in the typical sunflower and tulip designs with split ball-and-trumpet turnings applied between the panels in pairs. The molding on the drawers is slashed at the corners, and there is further decoration of "nut-meg" bosses and split drop turnings. The ends are without carving but are decorated with molding into three panels. The molding, drops and bosses have been painted black; and there is a gorgeous patina to the pine top.

The Hadley chest is, perhaps, the finer piece. It is entirely of oak with a deep chest and one long drawer. As is usual with the Hadley chest, the entire front, including the rails and stiles, is covered with a running design of tulips and leaves in incized carving. The

THE OLD BAR ROOM

"One lingers here before the fireplace, musing of old days, reluctant to go to bed"

A beautiful example of the so called "Hadley" chest—1700. Probably a dower chest (see the heart design)

THE OLD KITCHEN

"One cannot look at these homely hand-worn tools without a pang of admiration and respect"

A fine Connecticut chest. Note the characteristic sunflower and tulip design. About 1700

THE ONLY ORIGINAL WALLPAPER IN THE INN

"An enchanting all-over design of drooping bluebells against a faded background of silvery gray". For all the world like a room in a doll's house (Lafayette's room)

center of the three panels has besides the tulip design the initials "M. S.", and two tiny hearts carved in it, so it probably was a dower chest. These chests were usually stained with color and there are traces of blue on the panels of this one. The sides are simply divided into panels and the top is attached with loop hinges. The piece is in perfect condition but shows much wear about the drawer where fingers have been inserted to pull it out and on the top, which is smooth as satin. This is an altogether lovely piece, well known to collectors and often illustrated. It alone is worth going miles to see.

THE HOWE BEDROOM NOW CALLED THE EDISON ROOM

This bedroom is in the front of the house above the Bar Room. It, too, has the wide pine flooring and hooked rugs, and is papered in a soft corn yellow. There are amusing Currier and Ives prints on the walls. The window frames in all these upper rooms are flush with the wall, without molding, and are not an equal distance from each other or from the floor, which gives an effect of delightful naiveté.

This may quite properly be called an "Empire" room. A terrific half-headed four poster is covered with a remarkable padded and corded white spread, the most noteworthy thing in the room. The amout of work on it is enough to make one's eyes ache! Besides the bed there are the familiar Empire-Victorian rocker, foot-stools, and mahogany side chairs covered in black hair cloth; an Empire work-table with two drawers and drop leaves; a wash stand with Rockingham pitcher and bowl, and a massive bureau with carved stiles. On the bureau is a charming little work-box about six inches square with a super-imposed spool box with holes for the thread to pull

Walnut mirror in deep convex frame and remarkably carved cresting like a Spanish comb (Upper hall)

through and with a pin-cushion top. An over-stuffed arm chair, the only one in the house, adds to the appearance of solid comfort in this room. It is said to be Mr. Edison's favorite room.

LONGFELLOW'S ROOM

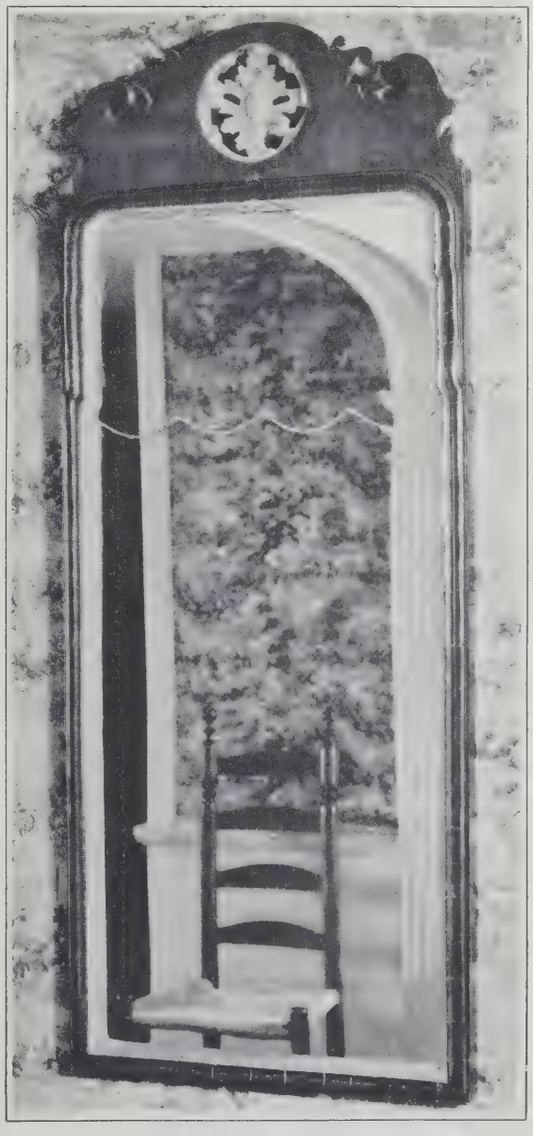
Across the bright hall is the room Longfellow is supposed to have slept in, perhaps for all we know, in the immense mahogany "sleigh" bed there now, it dates from just that time, 1850. This, too, is covered with a white tufted spread. A leather brass-bound trunk stands at the foot of the bed, and across the room is a William and Mary maple tall-boy with the proper turned legs, curved stretchers and tear-drop handles. A shallow secret drawer runs clear across the top under the cornice. 1700-20. Near it is a serpentine front chest of drawers with good bracket feet. In one corner is a day-bed, a long cane seated affair with eight turned legs and turned stretchers. There are some excellent chairs, one large bannister back with the top rail cut in deep scallops, fine finials, and the arm rests slanting sharply from the back to the front posts, being the best of the lot. And there is a nice maple low-boy with a fan carving in the middle drawer, and with elongated trumpet legs ending in funny disc turnings. The fireplace with white paneled mantel contains a Franklin stove with a good wire fender in front of it.

THE PARSON'S ROOM

This isn't A parson's room, but the PARSON'S room, named for the poet of the Tales, and it is next to Longfellow's, as it should be.

The bed here is a simple "Field" bed of maple with plain turned tapering posts. It is covered with a white tufted spread, and a dainty sprigged muslin canopy is thrown over the sprung top. The furniture is a collection of good odds and ends; a swell front Sheraton bureau inlain in maple, a pine wash stand, a round top pine "T" base candle stand, very crude and early, and a good Queen Ann burl walnut tall-boy with slender slightly cabriolet legs and pad feet. About 1720. On top is a wooden tri-cornered shallow box covered in wall paper, called a Cockade hat box. 1775. All different types, and woods and dates, you see, which shows how these old things may be drawn together with charming effect.

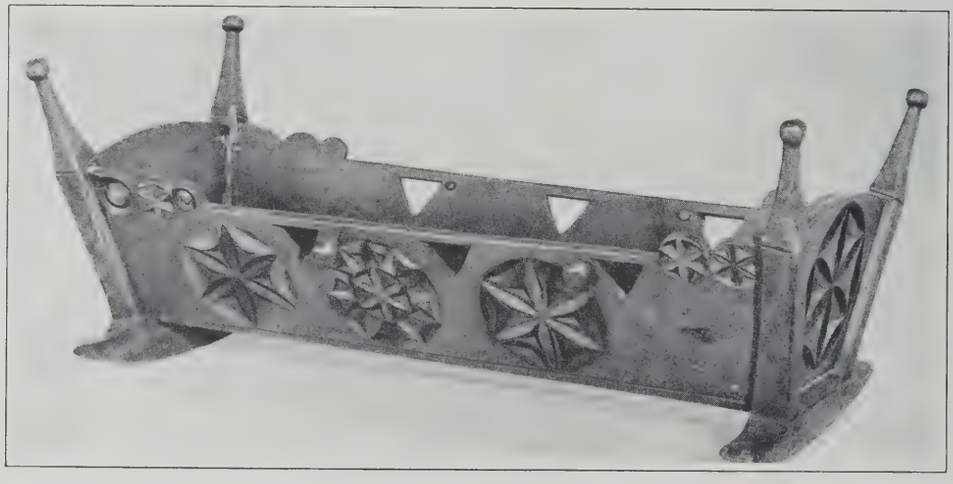
The very best thing in the room, however, is the tiniest of all butterfly tables, a little darling, if there ever was one, not more than sixteen inches high and with an oval top of about twenty-five inches in length. It is entirely of maple, with four spool turned legs spraddled out like a young calf's. The tiny butterfly wings curve delicately upward from the



Typical Queen Anne mirror in walnut, the upper part having nice scalloped edge (Lower hall) About 1725

THE LAFAYETTE ROOM

Note the charming use of the wallpaper border outlining the windows flush with the wall



The dainty little hand-carved cradle that looks at first glance like a doll's—but look again!

plain stretchers. It is not later than 1710. It stands beside the fireplace and holds a tripod iron rush holder.

LAFAYETTE'S ROOM

And now we have come to the most beautiful room in the Wayside Inn—Lafayette's Room. Here is where Lafayette slept. Washington may have slept, Longfellow probably slept, but Lafayette actually did sleep at the Wayside Inn. Thank goodness for that! Beyond that alluring fact, this room has the further advantage of being what we have described as "original" in wall paper, trim and so on. In other words, it has not been restored except as to furniture, and the charm of this low ceilinged chamber, the delectable flavor of it makes one wish feelingly that the rest of the house might never have been touched. Not but what it has been well done, mind you, but it has been done—and this has not.

Of course, the feature of the room is the wall paper, a most enchanting all-over design of tiny drooping blue-bells against a faded background of silvery gray. A narrow border in which the colors are a trifle stronger outlines the narrow window frames, the fireplace flush with the wall, runs around the ceiling, down the corners and around the baseboard for all the world like a room in a doll's house. Alice might much better have slept there than Lafayette! I can see her curled up before the tiny fireplace with the flames dancing on the fender and on her bright hair as she dreams of Wonderland. And all this because of a bit of faded paper, sweet as a cinnamon pink.

The furniture however is more suitable to visions of Lafayette than of Alice. She would have been lost in the enormous and heavily carved mahogany four-poster, although there

is a little trundle bed beneath she might have used. There is a swell-front mahogany chest of drawers with reeded stiles, acanthus carved at the top and two delicate work-tables, similar in type; a corner wash-stand of pine painted to look like walnut, several chairs of the slat-back or Windsor type, and a sawed fret-work mirror over the chest of drawers about complete the furniture in this room.

THE VALET'S CHAMBER

Opening off Lafayette's Room is a tiny "hall bedroom," with no door but the one into the master's chamber. Near the small mahogany four-poster, with a crochetted canopy thrown over the sprung top, is a heavy maple stand with a cross-bar base, and above it is a simple walnut mirror. On a tavern table is a delightful pink luster bowl and pitcher decorated with descriptive verses entitled "A Sailor's Tear."

"He thought of those he loved the best
A wife and infant dear,
And feeling filled the sailor's breast,
The sailor's eye—a tear!"

Of course, much depends on how you pronounce the word "tear"!

THE BALLROOM

You have now almost finished with the old part of the house. The upper floor, where my little room is under the eaves, has been added, and although the furniture up there is old and good, there is nothing unusual about it or different from what we have already described. There remains only a brief word about the Ball Room. We reach it through a turn in the hall, finding in that angle another good paneled oak chest with the date in bold letters on the center panel—1700. A flourishing letter "L" is carved on the top. Lemon? Over it are two ordinary little Empire mirrors with small pictures painted on the upper glass. We all know these little mirrors with the acorns across the top, or with the gilt split columns and brass rosettes along the sides.

The Ball Room is a long room above the long dining room below. There is nothing in it of any importance except a good floor and one of Mr. Edison's best talking machines, and these are of much importance to the guests of to-day. While you are "sitting out" you might look at the Hessian fire irons, the three tin candelabra and the upright piano. That's all—unless you have something better of your own to look at.

THE COACH HOUSE

We go down the hall, now, letting our fingers slip caressingly along the tops of the old chests, run down the stairs and out of doors to the coach house across the way. As we step out we hear a weary, crooning sound, not loud but infinitely plaintive, and we look at the sign of the Red Horse swinging from an iron bracket. Back and forth, back and forth it swings with its perpetual complaint. On it we see a prancing red horse and the initials "D. H. 1686"; "E. H. 1746." "A. How 1796": "L. H. 1830."

Over in the coach house under the ancient trees that ARE original, we find two old coaches. One of them is big enough to hold six or eight, and has a rail for luggage on the top. The other is smaller, painted a gay yellow and on the door panel are the words:

"Coach which Lafayette rode in, Aug 24—1824."

Let us hop in beside him, much pleased with the comforts we have enjoyed at the Wayside Inn, making a mental note as we arrange our band boxes and smooth our rebellious hooped skirts, to return to its hospitable roof at the earliest possible moment, say in the summer of 1926.

The Coach House and the "Coach which Lafayette rode in"

Modern Conveniences in the Art of Living

IF THERE were a familiar spirit to haunt the Wayside Inn, it would not be the jovial shade of a How tavern-keeper, but that of one of the early housekeepers. The unsung heroines who held the home together while their men-folk battled with the wilderness are thought of as romantic and pious figures spinning beside an open fire "in the good old days." Their fourteen-hour day of housekeeping compares cruelly with the domestic duties of to-day where mechanical power is substituted for physical toil.

Fireplace in Washington's Room of the Wayside Inn showing the andiron (below at left) and the fender, below

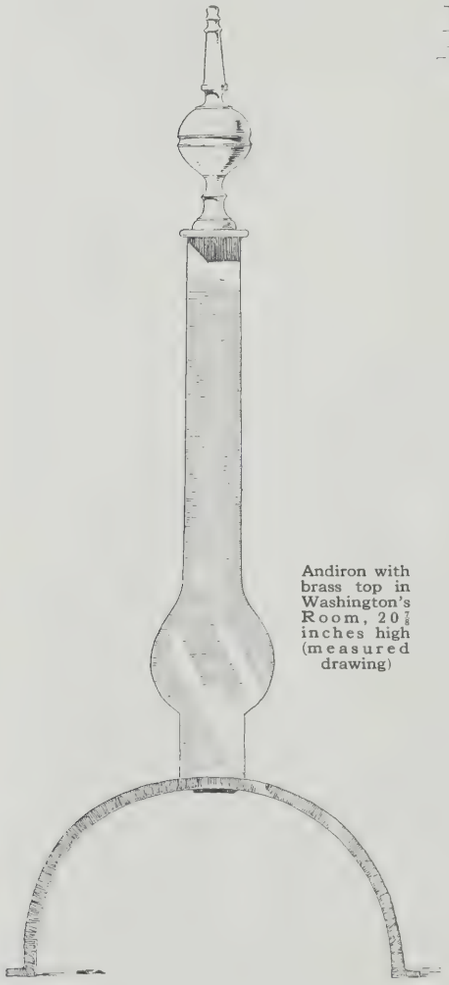
When the initiative, grit and practical imagination of the American settlers had won out in the first struggle for survival, the same qualities were gradually turned to the amelioration of living conditions, and as the reserves of time and wealth and knowledge have accumulated in the last two hundred years, they have been utilized to convert the routine of housework just as radically as they have mechanical transportation or communication.

At the Wayside Inn the contrast between the domestic economy of the two periods is marked by the preservation of the old utensils side by side with modern conveniences, inconspicuously installed for the smooth running of a modern inn.

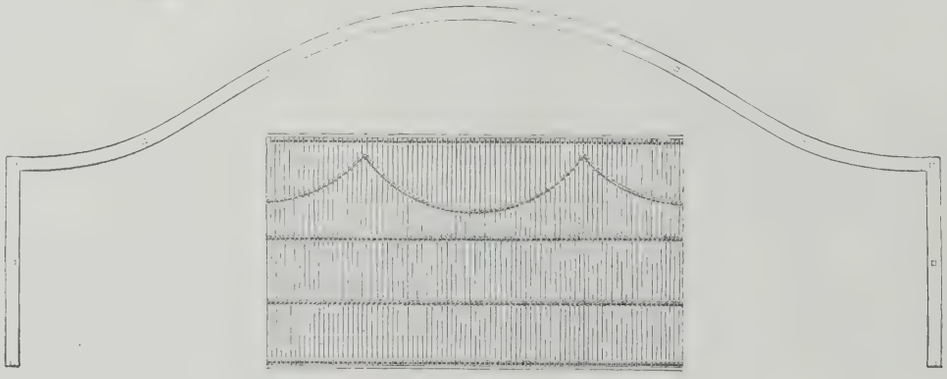
In the old days, the preparation of the midday meal meant more than telephoning to the market in the morning and turning on electricity. Preparations then began six months before. In the kitchen was the open fireplace where wood was the only fuel; wood, which had to be felled, cut and split, stored till dry and carried in by the armful, whether in rain or snow. The cooking utensils were of heavy iron hung in the smoke on cranes or set in the ashes. They were weapons for the war against hunger, not the light and cleanly instruments of to-day for concocting delicacies. The baking required that red hot coals should be laboriously shoveled into the domed brick ovens beside the fireplace and then shoveled out again when the masonry had become heated through and through; then the bread, pies or bean pots were slid in on wooden spades and left to cook over night. In fact, this primitive form of "fireless cooker" was the only means of having one hot meal on the Sabbath; for the New England Sunday baked beans were instituted to avoid any infringement on the laws against work on the Lord's day.

The quaint "stage setting" is gone and in its place is the convenience of the gas or electric ranges of the twentieth century where the fuel is available at the turn of a switch, where there are no ashes to remove and where the cooking may be done by automatic control, free from waste heat, soot, and fumes. The old-time cooking utensils have become museum pieces, they have made way for light and cleanly pans and dishes of glass and aluminum. The percolator takes the place of the iron kettle on the hearth, and the electric toaster that of the long fork, held by hand over the embers.

The provisions in early Colonial times were home grown and home preserved, "at retail." Each string of dried apples, or firkin of butter, or jar of dried peas, each sack of meal or of corn dried on the attic floor, each hunk of smoked meat, meant tedious preparation by hand and painstaking storage. There was no near-by grocer with neat, air-tight cans and packages of food, no telephone for ordering supplies, no daily automobile delivery. In the old days the household which planned far ahead had sugar (from the maples) jellies, jams, dried fruit, smoked meat, root vegetables for the winter; but only by unremitting toil were these provisions prepared. And with every effort no household would have fifty-seven varieties of vegetables and preserves, not to mention canned fruit, tropical fruits, and fresh vegetables most of the winter. Nor were there prepared foods like the cereals of to-day, pancake flour and even pie crust dough done up in neat packages ready for use. The bread wagon comes with bread and cake



Andiron with brass top in Washington's Room, 20⅞ inches high (measured drawing)



Detail of wire fender in the Washington Room of the Wayside Inn. It is 8½ inches high. Also plan of the gracefully curving brass top

even into the country. Everything is convenient but the best thing—corn bread. Modern industry still fails to provide this in quantity to the public.

If there was to be milk, there had to be a cow with the milking, setting and skimming done by the household. To-day we accept the arrival at our door step of a sealed glass bottle as a matter of course. There was no ice in summer and if the milk and butter were to remain fresh, it had to be kept in a spring-house or lowered down the well. Had some one introduced a spic-and-span, sanitary, electric refrigerator, it would have been burned at the crossroads as black magic!

Even the water for cooking, washing, and drinking had to be hauled up from the well, carried in by hand, and the waste emptied again out of doors.

A maid carried water up stairs for every guest and the waste she likewise carried down. The endless running that she did is now done by the water itself, the carrying being done by wrought iron or brass pipes. That has done more for the emancipation of women than any other reform in history.

When this reform came the end of the pipe was a marble washbasin or a tin tub which lacked certain of the attractiveness of the old bowl and pitcher. But the descendants of that basin and tub beautifully made of porcelain have no fear of comparison. The pipes used to hide themselves from public gaze after the fashion of the maid who carried the water. But plumbing fixtures now are more open than diplomacy and more effective.

Obviously if all the water had to be carried by hand, plenty of water for a real bath was only to be had by going to the creek which was fine in summer but lost enchantment as fall came on. And as for a hot bath, how long would it take to heat enough water for a bath on an open fire where cooking was in progress most of the time.

The other thing besides water that runs itself and saves the running to and fro of women is electricity. It runs into the lights, it will run a washing machine, an iron, make ice, tend the oil furnace, do no end of things that save steps, and only one thing to increase them which is to ring the bells in the house.

The meals were served in pewter and wooden dishes on bare, unfinished tables, and dishes and table top were all hard to scour. Napkins, glass tumblers, delicate china were unknown to the yeomen of the early days of the Red Horse Tavern.

Even the kitchen floor involved drudgery. Where now it is covered with bright and sanitary linoleum or composition tiles or is of hard wood with waterproof varnish, in the picturesque past it was of wide, rough planks which had to be scrubbed and scrubbed for even a semblance of cleanliness.

The wide board floors have an attraction all their own, but they have not been copied in modern building for very good reasons. The old floors were mostly pine, a soft wood, that would neither take the finish nor give the wear of the modern hardwood floor. Nor could as good a floor be laid, for as the wide boards dried in the house they shrunk and left cracks, sometimes a quarter of an inch wide in which dust and dirt collected. The narrower boards of the modern hardwood floor do not do this and what they lack in picturesqueness they more than make good in durability and cleanliness.

The modern soaps and washing powders may make dirt fly as if the old woman was after it, but in the old days it beat a slow retreat giving way chiefly before elbow grease, for the home made soaps were not as cheap and convenient as soap is to-day.

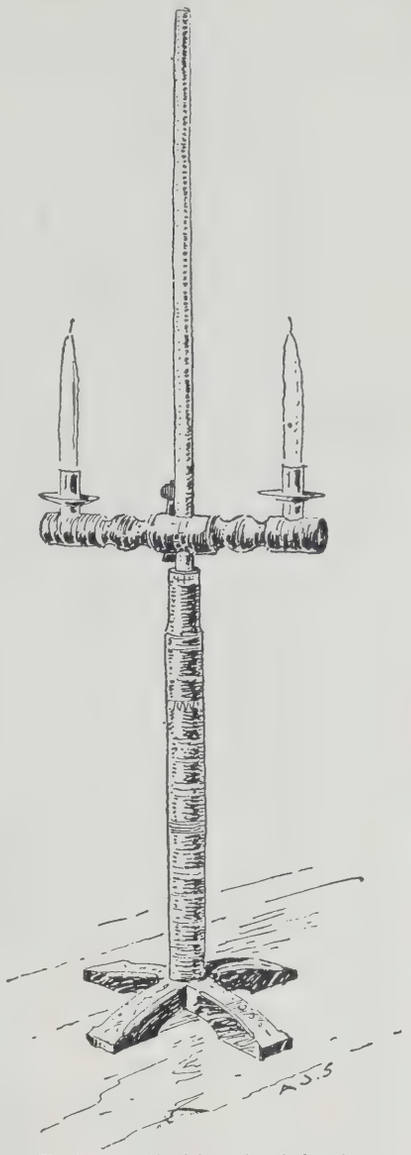
A paucity of conveniences ran through all the life inside the old houses.

1726	1926
Heating by one or two open fireplaces burning wood, and the use of warming pans to take the chill from the beds. Sand stuffed rolls at door and window cracks to prevent draughts.	Warm air, hot water and steam furnaces, burning coal or thermostatically controlled oil. Vapor and gas furnaces. Scientific heat insulation. Metal weatherstrips. Electric fans and electric fireplaces and heaters.
Bathrooms unknown.	Hot and cold water, porcelain fixtures.
Candles, made at home and rancid smelling whale oil lamps, dim and sooty.	Electric lights for walls, tables or ceiling, three-way switches and distant control.
Flint and steel to strike fire.	Inexpensive safety matches.
Cleaning by brooms made with bundles of twigs.	The vacuum cleaner.
Washing in wooden tubs and clothes spread on bushes to dry.	Public laundries or at home, electric washing machines, electric irons and clothes drying closets.
Sewing all by hand.	Electric sewing machines.

Silver, china, porcelain and linen they had in 1726, and what beautiful things they were and are, but how scarce. To-day, we enjoy all of these in great abundance.

The rag rugs, hooked, and otherwise that covered the floors of the Revolutionary Inns are again being made. They are no better now than then. Nor do the oriental rugs come better now than 150 years ago. The greatest change has come in the manufacture of carpets which were practically non-existent in the Colonies and which are both common and good today; and in lineolum which in its present pleasing and almost everlasting form is modern. If they had had a chance to use the colors that lineolum furnishes they would have used them, for they were great lovers of color. Rooms were painted red, blue, pumpkin, yellow, brown, and the "spatter" floor, when it was used, gave a gay tone to the old kitchens.

The register and desk and safe of the Wayside Inn. Prototype of the modern hotel desk and safe.



Wooden candlestick painted in three colors with adjustable arms (Wayside Inn)

People now wonder how the farmers used to survive with the houses hermetically sealed. The answer is that they didn't. We can hermetically seal modern houses because between the shingles and the plaster there is building paper or felt or prepared coverings as warm as a quilt. But most of the old houses had no such devices for warmth. Without a window or door open plenty of air came in to be sucked up the big chimneys (which had no dampers) with the heat of the fire.

It is a common saying that the winters are not so cold as in the good old

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Dieting for Delphiniums

An Experience in Soil Preparation

Linda Clement Hines

N A pretentious estate, tended by trained gardeners, Delphiniums of the improved types Belladona, Bellamosum, Gold Medal Hybrids, and some English importations have been nurtured for years. They were prettily colored Delphiniums, growing the height of ordinary Larkspurs, striving in no particular way to outrival their more plebeian relatives. But the supervising landscape gardener was disappointed: "I don't know what's wrong with my Delphiniums. They have every attention and they don't come up to my expectations; I believe the soil lacks something."

The next season in the same city the same designer had the lay out of a new garden. One section was low and needed to be filled in for several feet. The soil available for this was a sandy loam. He grew that year on this "fill" the most wonderful Delphiniums the countryside had ever known. No English garden could have outrivaled them. People came miles to see Delphiniums growing on stalks as tall as Hollyhocks. This gardener tells me that at last he has discovered the secret of growing Delphiniums; it is perfect drainage and a rich loamy soil.

To this I add my experience in a North Carolina garden. Most garden books insist that barnyard manure is the cemetery for all Delphinium plants but read how mine behaved.

I had two loads of barnyard manure delivered me by a liveryman in September. It was dumped on the highest portion of my lot—everything drained from it. Next neighbor to the compost pile was the ash heap from my furnace. My potted bulbs were placed here and covered with ashes. I later used the manure which was in flakes instead of lumps for a covering for all of this. The succeeding spring when the bulbs were removed the ashes and manure mixture which had been well weathered was spaded into what formerly was a heavy clay soil. The bed was as loose as an ash bank and almost as deep, for with one stroke I could plunge a spading fork down a foot and a half. Here the Delphiniums were planted with no other fertilizer, not even the customary trowelful of hydrated lime, but I did keep the plants well watered. I did not lose a plant and no one ever grew finer flowers.

This then is the formula as I would write it to insure success with these garden aristocrats:

Select plants of a pedigreed strain.

Give them all the room they want in which to stretch their feet.

Be sure that your bed is not acting as a drain receptacle for other parts of the garden.

Give them the requisite amount of plant food but not as a manure that is not perfectly rotted.

Do not let them suffer for water during periods of drought.

WHEN your initial attempts as a grower has made you the wildest Delphinium enthusiast in the county, try out each year the new introductions. This season my garden was host to a visitor from the Pacific coast. Her behavior was so excellent that I offered her a permanent home. She is Miss Everblooming California Hybrids. She lived up to her name and new reputation, for while the other Delphiniums took their customary rests—long ones too, between blooming drinks—she remained a mass of blooms the season through.

A MODERN AMERICAN LARKSPUR

For all its atmosphere of antiquity the Larkspur of to-day is a very modern expression, thanks to the work of careful selection of the fanciers. Present-day American strains combine the influences of all the best of the old world with the fancies of the new

Photograph by Mattie Edwards Hewitt

Iris time in the gardens of Mr. and Mrs. Edward F. Hutton, Wheatley Hills, N. Y., Marian Coffin, Landscape Architect

The Quest of the Unusual in Iris

Experiences with the Whims and Vagaries of Fascinating Natives and Others

Susan Tyng Homans

THE Iris enthusiast who having become the proud possessor of all the "easy doers" in the family, rests satisfied with his acquisitions and dreams of no further excursions in search of new worlds to conquer, misses much of the joy which lies just around the corner.

The "easy doers" of course, are those which have few cultural demands. This class would include the Tall Bearded and the Dwarf Bearded kinds of the Pogoniris section. "Garden Iris" seems a good name for the tall group, for it adapts itself readily to varying garden conditions and seems to require little attention after it has been planted. In the Beardless or Apogon class among the "easy doers" would be the sibericas and orientalis and their hybrids, also the Japanese with their big blossoms, for an Iris grand finale.

A PRESENT of the little I. cristata was the impetus which started me along the path of adventure. By rights this belongs to the easy class, as it seems to have very few requirements, being contented as I have it on the rocks in full sun and no encroaching companions and also in full sun growing out into the grass path and pressed upon on all sides by alien growths. This little dwarf comes from the mountains of the South. The type is a very pretty blue with the crest of the Evansia group, outlined with a dark blue and white blotch. It blooms very freely and with the open blossoms and spreading standards looks like a spot of blue carpet. My first plants came from Virginia.

A reference to the white variety as "very lovely," started me on its trail and later two shades from the Ozarks tempted me again, until finally they are all now inhabitants of my garden with others "collected in North Carolina."

Iris lacustris, described as "a frailer, smaller cristata," I do not yet possess. This is found growing in the vicinity of the Great Lakes and is now considered to be quite distinct. Both cristata and lacustris belong to the Evansia section in which the crest takes the place of the beard on the top of the falls.

There are a number of species belonging to the Evansia section, one of the most beautiful of which is the Roof Iris, I. tectorum, from Japan. In the case of tectorum, the crest is very pronounced and conspicuous. That is one of the most beautiful Iris. It comes in two colors, blue and white, the white variety being particularly lovely. It is one of the easy ones; wants a well drained position and sun, also rich soil, liking well rotted manure and no lime.

The little Iris gracillipes, from the woods of Japan, also belongs in this group. My first experience with it was fatal. I had it on the rocks with tectorum, thinking, that both being Evansias and both from Japan, they would require similar treatment. Experience is a dear school and often knowledge comes too late. A second specimen planted on the

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Growing Beautiful Long-Stemmed Pansies

August Ihm

GOOD Pansies are really within anybody's reach as the plants are quite easy to grow. The secret of very fine flowers lies in the very first step—that is to say the seed! You must have the right kind of seed to start with or you are out of luck. There are many strains, mostly in separate named colors offered by specialists, that you can buy, but there are other selected strains of certain cut flower growers that cannot be had because these cut flower specialists are not in the seed business and will not sell their seed at any price, simply gathering sufficient seed of their own strain for their own use. The modern large flowered Pansy is a very different thing from the Pansies that sell a dozen in a basket—the up-to-date plant requires room, from a twelve-inch pot to a candy pail. It is not uncommon for plants to measure a spread of from 4 to 6 feet, carrying flowers on stems from 6 to 12 inches long and blossoms $3\frac{3}{4}$ inches across. Some are frilled and have the appearance of being double and they come in all combinations of colors. Naturally, the finer the strain the scarcer the seed and the higher its price.

PLANTING THE SEED

SOW seed in July for early winter flowers indoors; in August for outdoor Pansies. Sow broadcast on any prepared soil out of doors. Make a sieve of mosquito netting and through it sift soil over the seed until it is covered from sight. Press firmly with a board. Keep moist. The seedlings will appear in from 10 to 12 days. Transplant to a prepared bed, 4 inches apart, and let them grow on. When the ground commences to freeze cover them with a light protection and do not uncover too early as this is the critical period, the frost lifting them out of the ground if they are exposed too soon.

The pansy is so tractable that every grower has his own particular strain through selection. The flowers here illustrated are crinkled and crimped and borne on stems 8 to 10 inches long

In the spring the plants can be put into their permanent positions eighteen inches apart. The Pansy requires a rich sandy loam enriched with decayed cow manure; must be frequently hoed; and the flowers must be picked and kept from forming seed pods if the plants are to continue blooming over a long season. They like full sun *and* moisture.

INDOOR CULTURE

A FLOWER grown under glass where temperature and moisture are under control is a hugely finer thing than one grown out in the open air. A coldframe is a fairly good substitute for a house if it is covered with mats at night. An old fashioned greenhouse of hinged hotbed sash, where every sash can be ventilated, heated with two rows of two inch pipes, is the ideal Pansy house. Frost does not hurt the plants so long as the ground does not freeze. The day temperature should be 55 degrees with air, the night temperature 45°. Pansies suffer in a confined atmosphere. Fumigation must be strictly attended to twice a week, and I find slug shot effective if the house is infested with sow bugs. Pick the flowers several times a week and at once place in cold water to remain until they are to be used. If the plants have been kept in a low temperature, with plenty of room and thorough cultivation the cut blooms will keep as long as any cut flower, and toward spring when the sun gets stronger flowers grown under glass have a peculiar fragrance all their own. But as with Violets, no sun, no flowers. In dull cloudy days it takes two weeks to produce a Pansy or Violet blossom. Length of stem is a matter of selection over a long period. It took 15 years with me of merciless culling of inferior plants. I have freaks in my collection that look like a conk shell; others that must unfurl rather than open up like other Pansies; and some so waxy in texture as to suggest Camellia blooms.

The Danger of Over-Tidiness in the Garden

TIDINESS in the garden can be carried to an extreme where it is harmful to the garden itself. This is particularly true in the handling of a shrubbery border. Some amateurs will have a fit if they see a few leaves about, whereas they never do much harm and often a lot of good, and therefore should be tolerated at least in the shrubbery border, even if they do not make the place appear as tidy as the owner desired.

With the man who is constantly raking up these stray leaves and converting them into leaf mould later to be applied back to the soil there can be no real quarrel about carrying tidiness to an extreme; but the man who rakes them up only to burn them had better sacrifice some of his tidiness and improve the health of his plants. He must not expect the occupants of the border to flourish and show their best if he constantly robs them of their natural supply of food. The one who does that never thinks about putting back some good manure in place of the food he has taken, for his mind so runs that the manure would seem to him more untidy than the leaves. If you are one of these extraordinarily tidy gardeners who gathers up every stray leaf and never puts anything into the soil, be less tidy and more generous to the plants, who are making every effort to bring gladness into the world.

Ammunition of the New Warfare on Plant Pests

M. G. Kains

CONTROL of plant pests, especially of insects, becomes simpler each year. Hundreds of investigators are working on the problems and presenting their findings to the public; some in more effective materials, others in improved apparatus, and still others in simpler methods of application. Among their most recent discoveries perhaps the most conspicuous is the effectiveness of what has been called the "one spray control."

The method to which this term is applied must not be construed as applying to an entire season's possible quota of plant enemies. No one spray applied, let us say in March, can be expected to affect either a bug or a fungus disease which does not appear upon the scene until mid-summer! Such a wonder is too much to expect! No; the "one spray control" is planned to combat those worst enemies—plant lice, scale insects, tent caterpillars, and many other bugs as well as plant diseases.

For years the investigators have been working upon the problem of simplifying, and therefore economizing, the work. They have proved that not only is it not necessary to spray first while the trees are dormant as previously believed and practised, and later with a different or more dilute mixture when the leaves are beginning to unfold, but that much more effective killing of these insects may be done with a single spray at the time when the buds are beginning to burst, provided that one of the newer, more improved spraying materials is used according to instructions supplied by the manufacturers.

With infinite patience investigators have counted literally millions of microscopically minute insect eggs, after spraying, to determine the percentages of "living" and "dead" ones; they have examined tens of thousands of opening buds to discover the amount of injury due to the materials experimented with: they have tabulated their results and published their findings, boiled down in many cases to a few sentences which may be stated as follows:

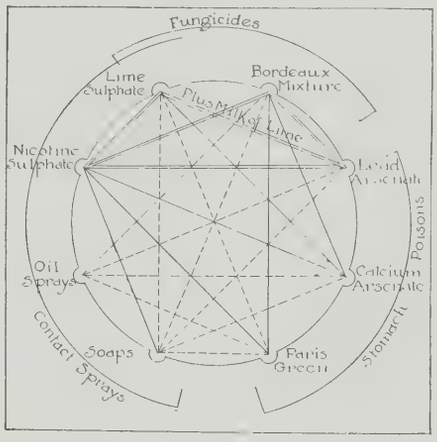
1. With the approach of spring the shells of certain insect eggs—those mentioned above and others—become more porous as the developing insect gets ready to emerge.

2. At this time proper sprays penetrate the shells and kill a larger number of insects than would be the case a few weeks earlier while the shells are relatively impervious.

3. The hatching of eggs of the insects mentioned occurs coincidently with the opening of the buds to which the newly hatched insects promptly migrate.

4. The newly forming growth of the plants is so tender that it is often injured by the old style sprays; but

5. New materials have been developed, thoroughly tested, and proved highly effective without being injurious.



Double lines show what may be united into a combined 3-in-1 all-purpose spray. Undesirable combinations are shown by broken lines. The light, continuous line shows possible safe mixtures

6. Certain sprays may be effectively combined so as to control both insects and diseases with only one application made at the proper time, thereby cutting both the amount of time and labor, and therefore the cost, without reducing efficiency.

7. By the addition of "stickers" or "spreaders" the adhesive quality of the sprays may be wonderfully increased so that the material may continue effective for weeks instead of days and in spite of rains.

BUT, regardless of such knowledge, money and time may be wasted by the improper use of materials, by using ineffective materials, or by using proper materials but, at wrong times (i.e., too early or too late). To prevent such losses it is necessary only to answer a few questions which any one may do for himself, regardless of whether or not he has had training.

Is the pest a bacterial, or a fungous disease, or an insect?

A. If the malady is wholly inside the tissues of the plant as in pear blight (revealed by the dark browning of the leaves in spring and summer) the only hope is cutting the affected part off far below the lowest point of attack, burning the piece at once, thoroughly disinfecting the tool before using it again, and disinfecting the wound with corrosive sublimate (one part in 1,000—one tablet in a pint of water).

B. If the malady has a more or less downy or powdery appearance on the leaf surface it is of fungus origin. So far as the diseased parts are concerned nothing can be done, but the pest may be prevented from spreading by using a fungicide such as bordeaux mixture, self-boiled lime sulphur, or pyrox.

C. If the pest is an insect it either chews and swallows pieces of the foliage or it sucks the juice of the plant. Bugs of the former class include all caterpillars, beetles, grasshoppers, and so-called slugs (the larvae of certain insects). Those of the latter embrace plant lice (or aphids), scale insects and all insects which the entomologists call "true bugs"—they all suck the juices, do not bite off and swallow pieces of plant. The chewers are effectively controlled by stomach poisons which they swallow with their food; the suckers must be controlled through their skins, either by a gas which poisons them, a dust which clogs their breathing apparatus, an oil which acts somewhat similarly, or a caustic which burns their skins. They cannot be killed by stomach poisons of any kind.

FOR the control of pests in the home garden it is better to rely upon commercial brands than to attempt to make the materials oneself because most of them demand a knowledge of chemistry or technique which the amateur does not possess. For a similar reason the manufactured materials must not be combined promiscuously because certain ones start chemical action which impairs their efficiency or damages the plants to which applied.

To determine which ones may be mixed without lessening their effectiveness the directions of the manufacturer should be followed. For instance, miscible oils must never be mixed with anything containing sulphur, or sprayed upon plants which have been previously sprayed or dusted with sulphur, or lime-sulphur, and vice-versa. The latter (doubtless the former also) may be combined with lead arsenate, nicotine sulphate and bordeaux mixture—one or all together.

Such a combination constitutes an all around control since the arsenate poisons chewing insects, the nicotine kills plant lice, the bordeaux prevents or checks the spread of fungus diseases, and the oil both destroys scale insects and helps make the other materials stick to the surfaces on which sprayed. This is therefore an ideal one spray control; but where there is no danger of disease the fungicide (bordeaux mixture) may be omitted; where there are no plant lice the nicotine sulphate need not be included; where there are no chewing insects to fight the lead arsenate may be withheld. The oil used alone as directed by the manufacturers will destroy any insect it wets thoroughly whether it be a sucker or a chewer, and it will act as a repellant of insects of both classes that may come to the plant after having been sprayed, but it will not destroy or prevent the spread of plant diseases, except perhaps to a limited extent.

Our Prize Contests

Each Month $25 for a Simple Practical Improvement

(Contest for this month closes August 1st)

WHAT is your practical suggestion, with sketch plan, of a simple modification for bettering any plan of either house or garden, or both, appearing in this issue? [This refers to editorial pages only, any plans appearing on advertising pages not included.] Each month GARDEN & HOME BUILDER offers a $25 prize for the most striking, practical and ingenious suggestion for the *simple* improvement of any of the plans in the current issue. (Elaborate reconstruction will not be considered). This applies to any plan printed for the first time in this month's editorial pages, and replies must reach us by August 1st.

It may be that you can see an improvement by stealing space for a closet, or adding an extra bathroom; the approach to the garden can very often be made more practical, more fitting; or perhaps it is the garden itself that can be bettered. These are but suggestions by way of example. Unsuccessful entries cannot be returned, and the right to use (at regular space rates) any suggestion submitted in the contest is reserved. Address entries to: Monthly Improvement Contest, c/o The Editors, GARDEN & HOME BUILDER, Doubleday, Page & Co., Garden City, N. Y.

A $100 Dividend in Contentment

(Entries close August 1st)

FROM time to time during recent months we have been publishing, under the general title of "Dividends in Contentment," little stories of people who have gone back to the land, people who have rediscovered "earth's undersong of comfort." It is a theme very near to many hearts to-day—this second coming of the land into her own, her reassertion of the vital part she plays in human lives and destiny. Through the whirring of much machinery we begin again to hear the still small voice.

For the sake of readers similarly seeking inspiration and direction and because we believe that "the swifter the pace, the sharper the tension of modern life, the more surely will the country—with all it has to give—come again into its own," we want to hear further from folk who have dared, and breasted, and bested the great adventure of living on the land.

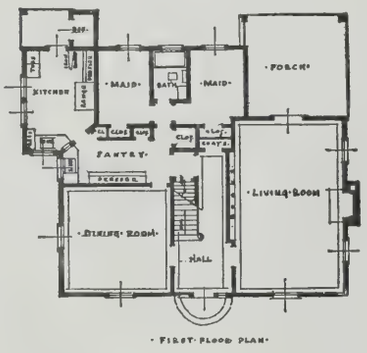
For the most stimulating, authentic story of this kind which reaches us by August 1, 1926, a "dividend" of One Hundred Dollars ($100) will be awarded. Manuscripts, other than the prize-winning one, deemed suitable for publication may be purchased at regular rates. Articles not to exceed 3,000 words nor be less than 1,200 and to be accompanied by pictures of the homestead or farm, its garden, orchard, cattle, chickens, or whatever the special feature which affords success. (Authors desiring manuscripts returned must so request when sending in and enclose postage for that purpose.) Address Dividends in Contentment Competition, c/o The Editors, GARDEN & HOME BUILDER, Doubleday Page & Co., Garden City, N. Y.

For Garden Photographs $50

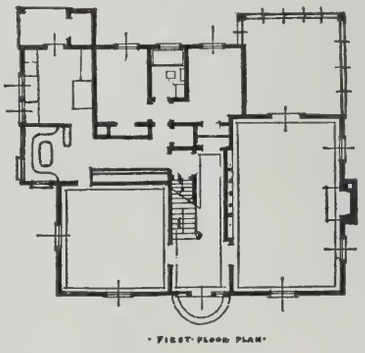
(Entries close October 1st)

TWO prizes of $50 each are offered to Garden Clubs for the most attractive and interesting photograph (or photographs) of gardens made this year ("this year" refers only to the flower planting, not to the permanent background of trees, etc.) Contest closes October 1st, 1926, by which date all photographs with explanatory details showing how the garden was made must reach the Editors. A club may submit one or more photographs of any garden in its district. The photographs must be suitable for reproduction and should have about a thousand words of explanation as to how the garden was worked, what it accomplished, and some account of the most interesting features. We reserve the privilege of purchasing at regular rates any material submitted. Unsuccessful entries will be returned only when requested and stamps are enclosed for postage. Address: Photo Contest, c/o The Editors, GARDEN & HOME BUILDER, Doubleday Page & Co., Garden City, N. Y.

The April Plan Improvement Contest



The original plan, published on page 169 of the April Garden & Home Builder



The changes suggested by Miss Mabel W. Downard which won the April Plan Improvement Contest

IN A lively contest for bettering the April plans Mabel W. Downard of San Diego, Cal. carries off the award of $25 for some very practical revisions of the arrangements in the Hinckley plan on page 169 of the April issue. She approaches the problem from the housekeeper's point of view. Suggestions came in to "improve" every plan in that month's issue, but Miss Downard's was adjudged best to meet the combined requirements of simplicity, ingenuity and practicability. She writes:

LOOK at the mileage from the range to the dining table! Maid or no maid that is a waste of human energy and good hot biscuits. So to keep the maids and enjoy the biscuits let's change the hall.

1st: Extend the hall as shown and make a small breakfast nook or a maid's dining alcove. Built-in bench and table could be used, but a gateleg table and Windsor chairs would be more in keeping with this style of house.

2nd: Place a swing door directly opposite the kitchen door which may be a swing door also. Opening as the plan shows it will not expose the kitchen's "innards" to inquisitive diners.

3rd: Extend the "dresser" across the space left by removal of the door. Any house keeper can think of things to use the extra shelves for.

4th: Across the hall enlarge the maid's closet and use the end space for brooms.

5th: Place the ironing board in the alcove; a more desirable place to iron than in the kitchen.

6th: The sink is placed under the window near the tubs, thereby saving plumbing expense. Over the tubs attach a hinged drain board to be lifted against the wall when tubs are in use. Soap dishes may be attached to the under side of drain board for use on wash days. Also the sink will be found useful to hold pans of washed clothes.

7th: There is a cupboard built under and over one drain board. Of course the cupboard over the tubs must be higher so as to not be in the way of the laundress's head.

8th: Entirely enclose the porch in full length French doors. Also have large size French doors from living room into the porch, which, by the way, would become the livingest room in the house. Furnished in wicker, lots of ferns and flowers and a well waxed linoleum for a little dance or two, this little "summer" room would become a thing of beauty and joy, more than paying the expense of the glass doors.

MABEL W. DOWNARD, San Diego, Calif.

From KASHMIR in the North of India

come Crewel Embroideries of exceptional distinction

IN India, the art of embroidering or "painting with the needle," dates back to around 500 B. C. With ever-increasing skill the native artisans have plied their busy needles through all the march of centuries.

And what strange, arresting, charming patterns have been characteristic of their craft! What lovely, rare blending of color they have brought to their art!

Fitting it is, therefore, that from the storied vale of Kashmir, the far-famed land of Lalla Rookh, should come these lovely Schumacher crewel embroideries.

In the design and coloring of the loveliest Indian embroideries of past ages, they are carefully made to simulate the hand-done crewel embroideries of Old England.

FROM its very earliest beginning crewel work has had a particularly fascinating history. It seems to have been characteristically English, although a quite similar embroidery called "Berlin work" was known to our grandmothers. Both were done with twisted wools or "crewels" and both blended shades and colors in a most artistic fashion.

It first came into favor in the Jacobean period and was widely used throughout the seventeenth and eighteenth centuries for draperies, for upholstering and for hangings and spreads on the fine old four-poster beds.

Crewel work was known to our grandmothers, too, back in old Colonial days. They brought over with them from England knowledge of this colorful stitchery and through the long winter evenings taught their young daughters how to become accomplished needlewomen.

The crewel embroidery on this Schumacher fabric is done in lovely, soft wools, on the native drill cloth of India—a neutral background for the favorite tree design on which grow wondrous fruits and gorgeous flowers.

The colors are fascinating. Dull gray greens with here a touch of flaming orange; soft blues made more fascinating by the tans and browns and reds that combine with them — all subdued in hue — all with the strange charm of a far-off, alien country.

Let your decorator, upholsterer or the decorating service of your department store show you this embroidery, as well as the Schumacher range of fine drapery fabrics of all periods.

Included in the most distinguished variety are velvets, damasks, brocades, chintzes, tapestries and prints. And, in addition to designs in the tradition of the fine old things of the past, there are, in Schumacher fabrics, the most delightful examples of the interesting trends of modern art.

Exotic flowers and fruits grow with Oriental splendor on the "tree of life" embroidered here on native Indian drill

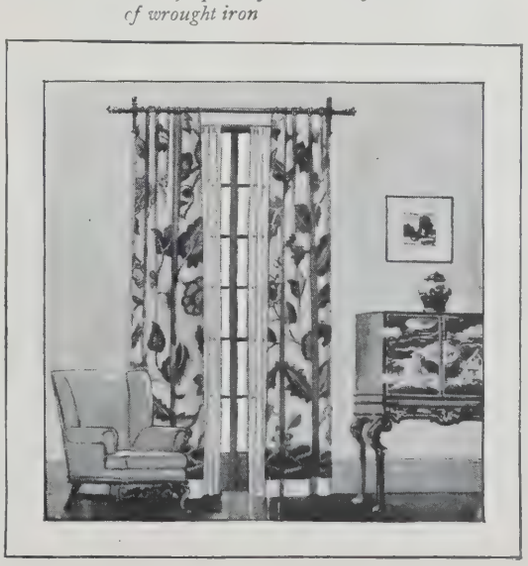
"Your Home and the Interior Decorator"

YOUR home can reflect the newest, most interesting decorative ideas with these lovely drapery fabrics. Yet you need expert professional advice to be sure you are using them correctly with your own furnishings.

This booklet has been prepared to show you how a decorating service functions and how you may, without additional expense, take advantage of it.

Beautifully illustrated in color, it will be sent to you without charge upon request. Write to F. Schumacher & Co., Dept. D-7, 60 West 40th Street, New York, Importers, Manufacturers and Distributors to the trade only, of decorative drapery and upholstery fabrics. Offices also in Boston, Chicago, Philadelphia, Los Angeles, and Paris.

Crewel-embroidered curtains are one of the newest and most interesting window treatments, especially with such fixtures as these of wrought iron



F-SCHUMACHER & CO.

The National Garden Association

Formed to promote the annual observance of National Garden Week

LEONARD BARRON, F.R.H.S., President

Honorary Vice-Presidents: J. HORACE MCFARLAND, MRS. FRANCIS KING, MRS. RUSSELL TYSON, MRS. THOMAS G. WINTER, MRS. SAMUEL SLOAN, MR. FREDERICK NEWBOLD, MR. ROBERT PYLE, MRS. JOHN D. SHERMAN.

Coöperating Societies: SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS; NATIONAL PLANT, FLOWER AND FRUIT GUILD; AMERICAN DAHLIA SOCIETY; AMERICAN IRIS SOCIETY; ONTARIO HORTICULTURAL ASSOCIATION; AMERICAN FORESTRY ASSOCIATION; WOMEN'S NATIONAL FARM AND GARDEN ASSOCIATION; WILD FLOWER PRESERVATION SOCIETY; NATIONAL HORTICULTURAL SOCIETY; THE AGASSIZ ASSOCIATION; THE SCHOOL NATURE LEAGUE; SOCIETY OF LITTLE GARDENS.

THERE is one phase of national gardening that should interest each individual whether he or she own a garden or not. That is the destruction of the tent caterpillar nests that spell such immeasurable destruction to our roadside trees. We use the word "immeasurable" advisedly, for who *can* measure the damage done by the millions and multimillions of these worms that in a short time can utterly strip a tree of its leaves! What is the value of a tree, anyway. More than is realized by the average person. If this matter *were* fully understood, the new development companies now spreading over the land would think twice before cutting down whole forests so that the land can be turned into building lots. That it is necessary to open up such tracts is not denied, but a few trees could be left on each new lot with added value to the lot, too.

By permitting our trees to be destroyed we are gradually changing our climatic conditions with consequent reduction of our rainfall, destroying soil through erosion, creating greater flood hazards, and actually increasing our living expenses because of this upsetting of natural conditions. When man is aided in this work by these hordes of tent caterpillars, the menace is doubly serious. It is a well-established fact that the insects and worms threatening our trees and gardens actually endanger our very existence. In spite of all the insecticides and sprays of science, these pests are increasing. This is due in great measure to the destruction of our trees so that the birds, the destroyers of the insect world, are deprived of their natural breeding places. A vicious circle this, an important part of which is the tent caterpillar.

GARDEN clubs all over the land are actively engaged in a determined warfare against these worms. They are enlisting the aid of the school children by offering prizes for the greatest collection of egg clusters. The Federation of Garden Clubs of New York State in its broad and far-visioned program makes this work an important part of their schedule. Last year, the Amityville, Long Island, Garden Club stressed the need of such a crusade, offering cash prizes to each school where the children aided. The almost unbelievable number of 28,383 worm-nests were collected in this way! According to the Insect Pest Survey Bulletin, a report from Rye, N. Y., states that it is expected that one hundred thousand of these egg masses will be collected this year by children stimulated by prizes for the greatest number collected.

The work of garden clubs is spreading each year into new channels, each club finding some especial worth-while work to do, something to take care of and preserve. Typical of this is one activity of the Garden Club of Lenox, Mass., which publishes a Tourists' Folder, illustrated, "Beautiful Berkshire." This contains a most satisfactory map, also historical data of great interest as well as general information about Berskhire county. There is also material published of value in restricting billboards, preventing forest fires, protecting trees and flowers and eliminating roadside rubbish. For information about securing copies of this helpful book, letters should be sent to Miss M. Parsons, Stonover, Lenox, Mass.

Yearly the National Garden Association calls attention to the work of the National Plant, Flower & Fruit Guild whose motto is "Make the waste of the country meet the needs of the city." One of the ways of accomplishing this is through flower booths maintained in several city railroad terminals. Here commuters may bring their flowers to be distributed among the city's sick and shut-ins and children. Each individual can help in this work if he will, and the value of this can not be overestimated. To learn more about the work of this Guild, to learn how extra jars of jelly and jam may be given to the poor and needy, write to the main office of this most helpful organization at 70 Fifth Avenue, New York City. Full information will gladly be sent. Ask, too, about "Church Garden Clubs" a phase of club work stressed by the National Garden Association last year.

OF interest to all who have held, or will hold another year, Iris Shows and Rock Garden contests are, the following schedule of points:

For Iris		
Stalks		
	Height	2 points
	Branches	1 point
Flower		
	Number of buds	1 point
	Size and carriage	2 point
	Texture and substance	2 points
	Color	1 point
	Fragrance	1 point
		10 points

JUDGING ROCK GARDENS

From the *Gardeners Chronicle* (England) we quote the following scale of points to be used in judging rock gardens in every competition. Maximum points will be awarded as under for:

(a) The design, proportion and shape, *8 points.*

(b) Simplicity, direction continuity of the main lines produced by the ridges of stone (the placing of rocks and plants to convey an illusion of distance is included in this, also the design connected with any display of water), *20 points.*

(c) The setting of the stones (picturesque laying consistent with nature and general quiet effect), *14 points;* N. B.—Great attention should be given to the placing of isolated stones, as this affects both "design" and setting.

(d) The proportion of each color used in planting the rockeries, *10 points.*

(e) The colors chosen in planting and their relative placing in harmony with one another, *18 points.*

(f) Skill in regard to grass laying, careful planting, and hiding cement, background, etc., *6 points.*

(g) Quality and rarity of plants, *24 points.*

SO MANY garden clubs are starting libraries for their members that we are glad to give the following list of some desirable books for the garden maker:

"Garden Making & Keeping" by Hugh Findlay, Asst. Prof. of Agriculture at Columbia University. The newest book on garden work.

"The Complete Garden," by Alfred D. Taylor, a noted garden authority and Fellow of the American Society of Landscape Architecture. An all round reference book.

"The American Flower Garden" by Neltje Blanchan, one of the classics of garden literature.

"My Garden," and "Adventures in My Garden and Rock Garden" by Louise Beebe Wilder one of the best known and best beloved of garden writers.

Six books for the Amateur:

"Flower Growing," revised edition by Leonard Barron.

"House Plants" by Parker T. Barnes.

"Lawn Making," by Leonard Barron.

"Planning Your Garden" by W. S. Rogers.

"Roses and How to Grow Them" revised by J. Horace McFarland.

"The Vegetable Garden" revised and enlarged by Adolph Kruhm.

"A Garden Blue Book of Annuals and Perennials" by Henry Stuart Ortloff. This gives full working instruction for the amateur.

"Gardening Under Glass" by F. F. Rockwell, a book of practical common sense.

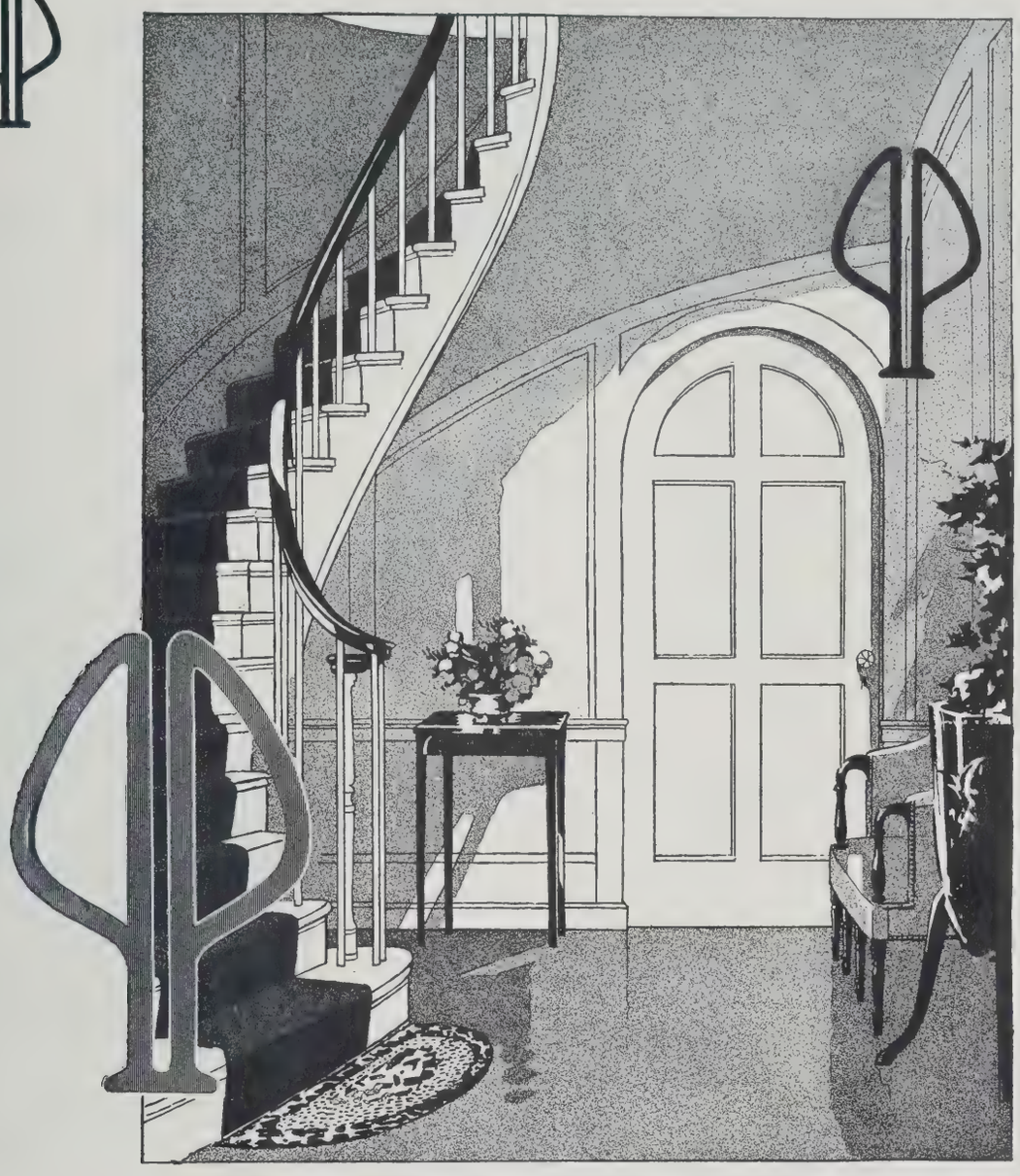
"Gardening in California" by Sydney B. Mitchell.

"The Amateur's Book of the Dahlia" by Mrs. Charles H. Stout, illustrated with a helpful classification list.

"Soils; How to Handle and Improve Them" by S. W. Fletcher.

For free constitutions for garden clubs, for programs and by laws, address the National Garden Association,

Garden City, Long Island, N. Y.
Ellen D. Wangner, Secretary



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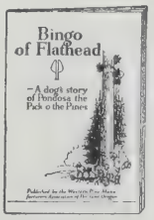


Write for this booklet

Pondosa Pine

The Pick o'the Pines

AMONG OUR FRIENDLY NEIGHBORS

Readers' Open Column for Exchange of Comment and Experience

An Ounce of Paint *vs.* a Pound of Carpentry

TO THE EDITORS:

Last week we had our house repainted. But first it was necessary to build new steps and to expend ten additional dollars in renewing mouldings at the base of porch pillars and the floor planks which had rotted under them.

"Why all this premature rotting of parts on a not-old house?" I questioned the painter.

"Moisture," was his laconic reply, "on surfaces unprotected by paint."

He took his pocket knife, jabbed it into a paper-thin spot, and showed me how the perforations had eaten through from the unpainted surface exposed to the damp ground, or where rain had seeped.

"I don't have that to contend with in *my* house," he told me. "When it was being built, I gave a good coat of paint to the under side of all boards that were to be used for porch floors, steps, and underpinnings. That was ten years ago. The other day I crawled under the porch to examine the floor and steps. They are as sound as a dollar. And likely to be, so long as the house lasts."—KATHARINE M. BARTON, *Paris, Texas.*

A Quick Growing Vine—Polygonum Auberti

TO THE EDITORS:

People so often ask about vines that are quick-growing and sturdy that I am glad to give a little testimony concerning Polygonum auberti. I bought one of my vines two years ago, October, 1923, and planted it on a very windy, exposed corner of a tiny seaside cottage in Massachusetts—a spot which the previous owner told me frankly would never grow vines.

The following spring, 1924, when I arrived, the poor little relic indeed looked whipped to pieces, and I nursed it rather despairingly during June and July, watering it with rainwater and giving it bonemeal and a liberal dose of what my neighbors term "hen-dressin." August saw the little vine full of life and in September it was strong and green and bore a fair number of feathery white blooms.

Next June, I could hardly believe my eyes. It had clambered all over the front of the little cottage, a mass of clean green leaves and it was beginning to bloom here and there. July saw it in full bloom, and when I came away the last of October it was still blooming. Not only did it bloom out of doors, but it inserted its insinuating stalks through the eves of the cottage, and I was kept busy all the rest of the summer cutting off anaemic branches ten and twelve feet long that would grow in incredibly short time inside my house. I may find that like Jack's beanstalk it touches the clouds when I return this summer.

Last spring I planted another of the same type on a corner of our workshop here in Illinois. It grew about fifteen feet, but that was in the shade. It has come through its first winter admirably, and I expect it to emulate in some degree the spectacular record of its Eastern cousin.—MRS. V. K. SPICER, *Kenilworth, Illinois.*

Foxgloves and Wallflowers

TO THE EDITORS:

Seed of the new Giant Shirley Foxglove sown in rather poor soil made satisfactory plants by autumn—not as good as self-sown seedlings of the yellow Foxglove in the rich border, but that hardly could be expected.

Fellow Daffodil mourners may care to hear of the Siberian Wallflower as a window-garden plant. Seed sown in the open in the spring were brought into the house in the fall. In August they had been cropped to the ground by chickens, which may have accounted for their extreme bushiness. They are one of the true orange flowers and in appearance are like a glorified Alyssum. They have a tantalizing pansy-wallflower odor, and have the habit of hanging their heads frequently for a drink. While not spectacular like our late lamented, they make pleasing little comforters in our extremity.—MRS. OLA B. LEIGHTON, *Northwood, N. H.*

Some Interesting Dahlia Data

TO THE EDITORS:

Does it make any difference in the quality of the Dahlia tuber, as to what section of the country it is grown in? I made a test last year and bought tubers from Massachusetts, Long Island, New Jersey, Washington State, Oregon, and California. I did not find any appreciable difference. I am convinced from my experience that any given variety purchased from reputable growers anywhere will give practically the same results if given the same attention.

I did not buy any of the high priced new bulbs last year but confined my purchases to the older standard varieties. From my note book I give the date of blooming and the sizes of some of them. *July 15th,* Paul Michael—8 inches; Mrs. Ethel F. T. Smith—9 inches. *July 18th,* Grizzly—9 in. Queen Mary—5 in. Insulinde—8½ in. U. S. A.—6½ in. Mrs. I De Ver Warner—7 in. Billionaire—7 in. Pride of California—7 in. *July 31st,* Snowdrift—7 in. U. S. A.—8 in. Millionaire—7½ in. La Mascotte—7 in. Attraction—6 in. *August 8th,* El Camino Real—8 in. Hortulanus Fiet—6 in. Bertha Storey—7 in. Insulinde—8½ in. Grizzly—8 in. Billionaire—8½ in. Comstock—7 in. Mrs. I. De Ver Warner—8 in. Queen Elizabeth—7 in. U. S. A.—8½ in. *August 26th,* Mrs. Ethel F. T. Smith—10 in. Mina Burgle—6 in. Tacoma—7 in. Dardanella—8 in. Snowdrift—9 in. Patrick O'Mara—6 in. Prince Imperial—8½ in. Kalif—8 in. Golden West—6 in.

The most satisfactory Dahlias I had were in the order named: Mrs. I. De Ver Warner, U. S. A., Paul Michael, Kalif, Grizzly, Billie Burke, Pride of California, Comstock.

This year I am adding to my garden some of the newer, higher priced varieties, but don't see how they can do much better than these older standard ones.—J. B. IVEY, *Lake Junaluska, N. C.*

The Bulb Question in America

TO THE EDITORS:

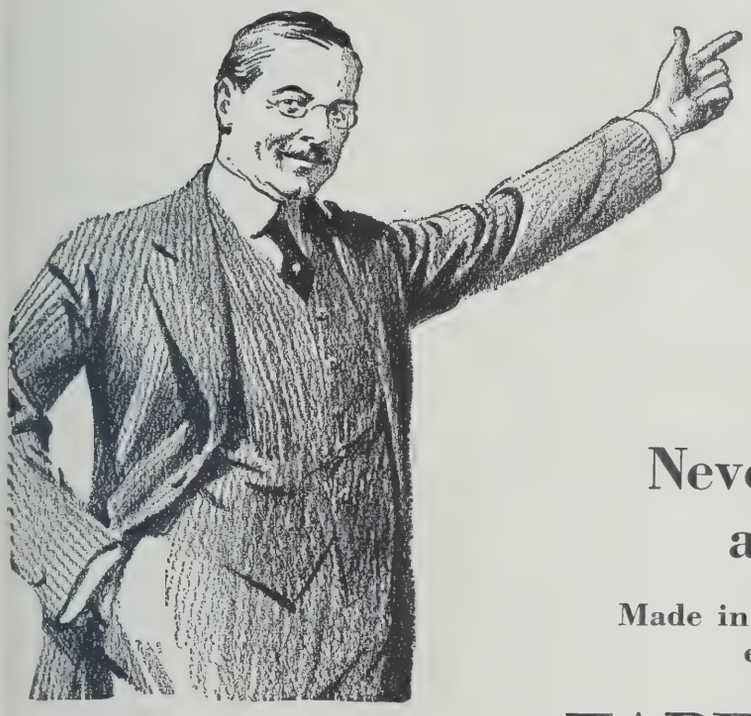
Since the blow which we had hoped the kindly Fates might avert, or at least defer, has fallen, and it has been decreed that we are to import no more Narcissus bulbs (very few bulbs of *any* kind, in short) it is futile I know, to discuss the matter further! Those of us who see in this ruling of the Federal Horticultural Board an unnecessary and drastic measure which is disastrous to the cause of horticulture in this country, must now turn our thoughts to possible means of preserving and increasing the supply of these bulbs already in our possession.

Is it not possible, through the medium of GARDEN & HOME BUILDER to develop an interest in the amateur hybridization of such bulbs as Narcissus, Crocus, and even Tulips? So little work of this kind is successfully carried on in this country. As we know admirable strains of Gladiolus have been developed here, but to my knowledge we have done little of distinction in producing new varieties of Dutch bulbs, though the beautiful

"AS GOOD AS GOOD LOOKING"

TAPERED AMBLER ASBESTOS SHINGLES

RIGID ROOFING, NOT PAPER FELT



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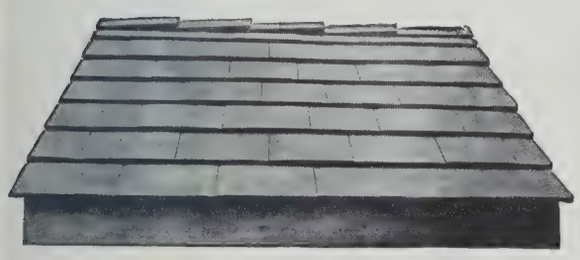

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J. A. Drummond, Los Angeles, Cal. Mountain States Machinery Company, Denver, Colorado.
The Berry Asbestos Company, Atlanta, Ga.

Cottage Tulip Avis Kennicott shows what one amateur accomplished!

Here is a work well adapted to the delicate manipulation of women; I suppose the reason it has met with so little enthusiasm among us is that American women have too many irons in the fire to devote themselves to this!

Of course there is the possibility that in the not distant future our increasingly paternal Government may decide that *no* bulbs, old or new, imported or home-grown, shall be left in our gardens, and what we now have left to us may be ruthlessly uprooted by agents appointed by the conscientious F. H. B., but there is still the chance that these appointed guardians of our welfare will have to acquire a greater degree of knowledge than the inspectors of our Currants and Gooseberries possess before they can recognize a Daffodil as distinguished from a Dandelion!

Many of the beautiful new varieties of Narcissus are the result of the work of women in England and Ireland. One must have a certain degree of youth and enthusiasm to undertake hopefully to produce new and beautiful bulbs in sufficient quantity to exhibit or to market, for it is a work of time, but at least a great deal of pleasure can be derived from experimenting in the cross-fertilization of flowers, and the Dutch bulbs seem to respond readily to such experiments. Mr. E. A. Bowles, whose delightful books were formerly published by the Dodge Company in New York and are now most regrettably out of print not only in this country but in England, has done a great work with Crocus bulbs in particular, and in one of his volumes, "My Garden in Spring," he describes the process so minutely that the veriest tyro should be able to make a success of it; the chief requisite appears to be patience! Just here it occurs to me that in all probability we may also soon be forbidden to harbor any foreign books on gardening! Indeed it is not so many years since one zealous and patriotic Member of Congress asked with withering scorn why any foreign books should be permitted to enter the United States! "Let Americans read American books!"

Last year, as I traveled up through France in the spring, my eyes were gladdened, and my heart as well, by the sight of what that gallant and indomitable nation has achieved in the way of restoring her agricultural prosperity since the war. It appeared that every inch of available land was under intensive cultivation. All through the Midi one saw wonderful market gardens: acres of orderly ridged up rows of Asparagus, such Asparagus as only France produces; great fields of Lettuces, Cabbages, Cauliflowers, sprouting Peas and "haricots verts," the splendid gray Acanthus-like leaves of Artichokes—all protected by windbreaks of dark cypress trees planted so closely as to form a solid wall of bronzy green. Then came acres upon acres of young Peach and Cherry trees, all of a size, all pruned to a perfect uniformity and symmetry of shape, I could liken them only to a gay company of little dancing girls in airy pink and white frocks, and everywhere among these lovely orchards appeared fields of Jonquils and Narcissus!

France is growing these bulbs for the market now, and nowhere did I see evidence of any insect or fungus or other pest! Veritable "Fields of the Cloth of Gold" they looked; sometimes they were grown on some baronial estate where a hoary chateau overlooked this new source of revenue, sometimes the plantations ran for miles along the railway line, but everywhere was evidence of untiring industry and thrift. It is sad to think that none of these bulbs may reach our shores!

As I have said before, we are, as a nation, still young and ignorant where gardening is concerned, and we need all we can learn from the Old World. One has only to study the catalogues of such houses as Barr's in London, Vilmorin's in Paris or Correvon's in Geneva to realize how limited is our own knowledge and skill. Is it due to ignorance, to indolence, or merely to complacency that we are satisfied to grow only a few stereotyped varieties of a plant instead of the many we might have —or perhaps I should say which we might once have had, since they are no longer for us? Who can wonder if there is some slight degree of satisfaction in calling every sort of plant ailment which appears in English gardens "American Blight"?

It may be true that many bulbs could be grown successfully in our own country to supply the demand—but how many years must pass before a sufficient number can be produced to do so? And where is the labor to come from?

On my return from England at the end of May of last year, I found my little northern garden still gay with spring flowers—the very things which I had seen in France and in England weeks before!

In that late, retarded spring which we have in the far north, early Tulips were lengthening out their season and overlapping the Darwins and Cottage varieties; Narcissus of sorts still lingered: Crown Imperials were tall and stately and their charming little cousin, Fritillaria meleagris, was delicately beautiful planted in combination with Tulipa clusiana, that daintiest of its race, known in Tuscany as "la signora dipinta!"

Not only bulbs were there, but Polyanthus and the true English Primrose, descendants of a single clump brought from England some thirty years ago, in that golden age when it was not deemed a misdemeanor to bring home a bottle— No! you needn't hush me! I was only going to say a bottle with sprays of Ivy rooting in it, or a tuft of Heather or Cowslips. There were English Bluebells too—but what am I doing to admit to the possession of such treasures?—M. E. H., *Washington, D. C.*

All Daffodils Are Not Jonquils

TO THE EDITORS:

Can nothing be done to put an end to the vicious habit of florists in calling all Daffodils "Jonquils"? I cannot speak for the rest of the country, but in New York florists use the word Daffodil only for Van Sion and other double varieties, and all single varieties are lumped together as Jonquils. I have been told by a florist whose shop was full of King Alfred, Golden Spur, and other Daffodils, that he "was all out of Daffodils." The gardeners should act before the florists have crystalized this usage beyond hope of change. —AMY E. SPINGARN, *Amenia, N. Y.*

—The confusion is a creation of the cut flower trade alone. Nowhere else is the Jonquil anything but Narcissus jonquilla, the cluster-flowered, very fragrant, rush-leaved Narcissus. Trade practices and terms are hard to combat. On the other hand, it might be argued that the strict application of Daffodil to the Van Sion variety has a good foundation in the Old English Daffydown-dilly, by which the old timers meant the wild native N. pseudo-narcissus of England, and this, in its cultivated form, is Van Sion.—ED.

Hybrid Polyanthus Primrose used as an edging and inter planting for Tulips and Narcissus in the garden of Miss Marcia Hale, Elizabethtown, N. Y.

Commonplace things escape notice. A street of "contract" houses, a bare lawn, a weed-covered field—all are passed quickly.

The unusual catches the eye. A green lawn, flowering shrubs, shade and evergreen trees, grouped around even a simple house, raise it above its fellows.

Rare Plants from Hicks are Never Monotonous

Many of "Chinese" Wilson's noted introductions are here, with other unusual foreign and American plants. In this group you will find Berberis Wilsonae, B. Sargentiana, Enkianthus, Meyers Juniper, Hicks new Yew, Philadelphus virginal, and others of equal merit. These unusual plants can be obtained so readily from Hicks Nurseries that they should be a part of every home ground development.

A word from you will bring full information about Hicks Rare Plants. If you would like to visit the nursery and see them, we shall be glad to welcome you.

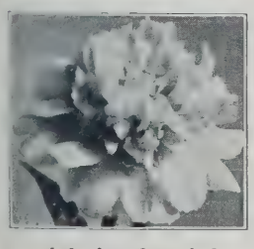
HICKS NURSERIES

BOX M WESTBURY, L. I., NEW YORK

"Famous For Their Beauty"

"Kentucky Bred" Irises and Peonies

With the height of the season just over, now is the best time to choose the varieties of Irises and Peonies that you will need for your next spring's garden. "Kentucky Bred" Peonies and Irises have the same fine qualities of hardiness, luxurious growth, exceptional color and shape that have made our "Kentucky Bred" Dahlias famous the country over. If you have not a copy of our 1926 catalog, write for it. You will find it an invaluable aid in choosing the best for your garden.



Ask for Special Gardens

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Louisville Kentucky

Designed Especially for George W. Harvey

Newton Center, Mass.

THE greenhouse proper is 18 feet wide and 33 long.

There is a goodly width center bench and two side ones, that also extend across the ends, on either side of the walk.

It is heated by a Burnham Boiler in the cellar of the brick work room.

All the wood used is the best of greenhouse quality cypress.

The entire frame of the house is steel.

In every particular, here is a house the best that can be built.

Not only will it last for generations, but grow the highest quality in flowers, fruits or vegetables.

It was designed especially for Mr. Harvey. He has no objections to our duplicating the house for you.

Glad to give you further particulars and approximate price.

FOR FOUR GENERATIONS BUILDERS OF GREENHOUSES

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

Eastern Factory, Irvington, N. Y. — Western Factory, Des Plaines, Ill. — Canadian Factory, St. Catharines, Ont.

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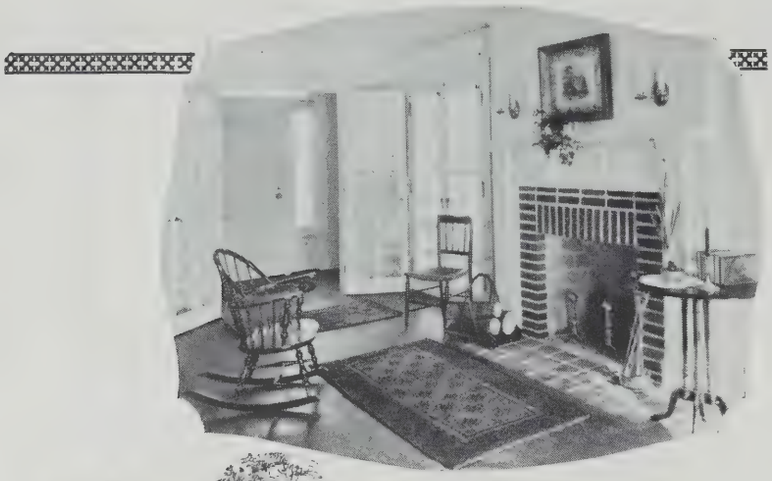

In every detail the Prize House at Garden City shows practical judgment and wise expenditure. And its floors are finished accordingly!

The Floors in this Prize House are finished with Johnson's Wax

YEARS of use will but mellow these fine floors to a richer sheen. They will not wear shabby, nor ever need refinishing. For the regular use of Johnson's Wax keeps floors superbly immaculate and shining with a deeply luminous lasting lustre.

Beautiful Floors are Easy to Have

Aided by that wonderful new work-saver, Johnson's Wax Electric Floor Polisher, women now Wax-polish ALL their floors and never feel the effort. The cost is merely nominal.

Each stroke of this smooth-running machine brings gleaming gloss to hardwood or soft wood floors, linoleum, tile, marble, etc. The Polisher does all the hard part. You need not kneel nor stoop—nor so much as soil your finger-tips!

Thousands of dealers rent out this wonderful Electric Floor Polisher for only $2.00 a day. Anyone can operate it. Or your painter will wax-polish your floors for you *electrically*, at a very reasonable rate.

You can own the Johnson Electric Floor Polisher for $42.50. With it you get FREE a half-gallon ($2.40) of Johnson's Liquid Wax and a $1.50 Lamb's-wool Mop for spreading the Wax. Order locally, or direct from us. We prepay expressage.

JOHNSON'S LIQUID WAX

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"The Floor Finishing Authorities"

Please send me free your new 25c book "The Proper Treatment for Floors."

My Name Is .....

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A New Book on Floors!

It tells how to finish floors of all kinds—old or new—hardwood or soft wood—linoleum, marble, tile, composition, etc. Just fill out and mail the coupon at left

GARDENING FOR THE BEGINNER

The Month's Reminder—July

As to Time and Place: In gardening practice a date can only be approximated as seasons vary and local conditions will have some influence. Generally the latitude of forty degrees at sea level and a normal season is taken as standard. Roughly, the season advances or recedes fifteen miles a day, thus Albany would be about ten days later than New York (which is latitude 42). The latitude of Philadelphia is a week earlier. Also allow four days for each degree of latitude, for each five degrees of longitude, and for each four hundred feet of altitude. Latitude 40 passes through Philadelphia, Pa.; Columbus, Ohio; Richmond, Indiana; Quincy, Ill.; Denver, Col.

How to Use This Guide: Suggestions as to the most important things of the month are given in this department so as to "remind" the gardener of the current duties. For routine details of such things reference should be made to standard handbooks and guides. It is impossible to make a complete manual of practice in each number of a periodical magazine. Yet timely articles will be found elsewhere in each issue, and references to back numbers will often solve the immediate question. Moreover, the editorial staff stands ready to help any reader with personal advice by mail. A self-addressed stamped envelope should be enclosed with the question.

Who Writes This: The advice and instruction in this department are the gleanings of many years' experience in practical gardening matters by competent amateurs and others who have "been through the mill." The contributions are made from various sections of the country: for example, Mr. Jesse A. Currey contributes from Oregon; Mr. Theiss from Pennsylvania; Mr. Henry Gibson from Pennsylvania (formerly from New York); Mr. Sherman Duffy from Illinois; Mr. P. T. Barnes, out of a world-traveled experience; Mr. A. Kruhm, from an extensive Eastern acquaintance; Miss Ethel Hutson from the far South; Mrs. E. Urquhart from California and, in addition, occasional notes from elsewhere and by the editorial staff and associated contributors of experience.

WITH the hot weather that is due this month, midsummer cultivation is the best means of keeping the plants in growing conditions. Nothing else is so important—not even the planting or sowing of new crops. You get ahead of the garden or the garden conquers you this month.

Weeding must be done, also plant root crops for winter use. Transplant for fall and winter. Make first sowing of perennials and biennials for winter use.

Keep up the campaign of poisons for bugs and blights.

Prune the Rambler Roses after flowering. Prune all early flowering shrubs after flowering.

Keep the lawn cut and well rolled and watered when necessary. Watering the lawn means soaking it—not sprinkling.

To be set out next month: If you want vegetables for canning and preserving for winter use, make special plantings now.

Send in the bulb order. Place your order for evergreens.

Detail of plantings to be done this month are:

Vegetables to sow: last succession crops of Beans, Beets, Parsnips, Carrots, etc.; Corn (by July 4th), Cucumber, Lettuce, Mustard, Peas (late in the month), Rutabagas.

Transplant from seed bed: Brussels Sprouts, Cabbage, Cauliflower, Lettuce, Celery.

Flowers to sow for wintering over, in frames or under mulch: Pansies, English Daisies, Campanulas, Myosotis (Forgetmenots), Hollyhocks and other hardy biennials and perennials.

MIDSUMMER PRUNING

MIDSUMMER offers good opportunity when much pruning can be done especially on all ornamental shrubs, fruit trees, and small fruits and, of course, in the case of trained plants the whole character depends on proper and careful pruning. Summer pruning serves three ends; one, train plants to shape as in the case of trained fruit trees and hedges; two, to control or remove undesirable growths, that is removing buds or sprouts from fruit trees, Grape vines, etc.; three, to condition flowering shrubs for next year's bloom. The objection or rather fear of summer pruning when the foliage is on the plant that many people feel is not well-founded. The practical gardener's old time adage that the proper time to prune is when the knife is sharp has a good deal of force. More than that, constant light summer pruning whenever the necessity seems to show will keep the shrubbery borders always neat and in control.

One precaution, however, must be insisted on. The pruning tools must be clean and sharp; whether this be knife, shears, or saw, and when you acquire pruning tools, get good ones. The difference in first cost is but slight and the lasting quality and ease of work with the tool is cheaply bought. The double edged pruning saw which is a fascinating thing to work with is not advisable. It has a tendency to cut where it isn't wanted.

Pruning for training is mostly the process of "heading in," that is, cutting back lateral or upright growing branches in order to maintian the desired form. Remember that the bud below the cut will most likely make the new lead, therefore, make your cut in relation to the direction of the future growth. If you want an open center prune so as to leave the new lead with a tendency to shoot outward. Similarly, a hollow in the center of a shrub may be filled by proper regard to the place of the cut.

(*Continued on page 476*)

Red cedar siding finished with Cabot's Double-White; roof in warm brown of Cabot's Creosote Shingle Stains, Marcia Mead, Architect, New York

Permanent Penetrating Pigments

Colors as Deep and Rich as Vegetable Dyes and More Durable than Paints

Cabot's Creosote Shingle Stains

now made with pure colors in colloidal solution—the latest triumph of colloidal chemistry. Colors so fine that they penetrate into the wood and cannot wear off until the wood wears. Will not settle in the cans. Flow on easily and smoothly and quickly, saving labor cost. Anyone can apply them. For shingles, siding and all similar woodwork.

Cabot's Stained Shingles

Standard Red Cedar Shingles Stained with the Standard Stains

It's a waste to stain good shingles with poor stains—they neither preserve the wood nor hold their color. Cabot's Stains are guaranteed, and Cabot-stained shingles are sold from staining stations all over the country.

Send for Samples on Wood—of silver-gray, moss-green, wood-brown, etc. Free.

SAMUEL CABOT, INC., Mfg. Chemists, 4 Oliver St., Boston, Mass.
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Other Colloidal Compounds

Cabot's Waterproof Collopakes: Soft texture and pastel-like tints for stucco, brick or wood. More fluid than paints, easier to apply, lower cost.
Cabot's Old Virginia White: The original brilliant white stain. As bright as new white-wash and as durable as paint.
Cabot's Double-White: Whiter than white lead paint, and two coats cover equal to three.
Cabot's Double Colors: Pure colors of great richness and durability.

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tion is easy no paint or ntenance cost uired.

Shut out summer trespassers with DUBOIS

ALL the world loves a picnic—but not someone else's on *your* front lawn!

The new way of preventing trespassing, and of keeping passing motorists from staring in at you, is to erect Dubois Woven Wood Fence.

This strong picket fence, made by hand in France from straight, young chestnut saplings, is as effective a barrier as a stone wall, and as charming in its appearance as a hedge.

DUBOIS Woven Wood Fence

ROBERT C. REEVES CO.
187 Water St., New York
Please send, without obligation, your new portfolio illustrating the many interesting ways *Dubois* is being used.

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Peonies - A Cherry Hill Institution

From the very beginning this Nursery has made a specialty, yes, a hobby, of cultivating that greatest of all hardy perennials, the Peony. A good start was made by Thomas C. Thurlow, founder of this Nursery, who secured in his days all the finest varieties in Peonydom. As the years rolled by, the younger members have vigorously followed the wise policy of the founder.

"Watchful Waiting" for Distinctly Worth-While Novelties

Literally thousands of dollars and years of waiting have been spent to create from the fine strains we have gathered worth-while new hybrid seedlings having enough intrinsic value to warrant our offering them to the public.

There is always at work here at Cherry Hill an acre or two where the successive generations of seedlings first come into bloom. It generally takes eight years before a fair opinion can be formed of the value of a seedling.

Yet this work is being diligently carried on year after year and is largely responsible for the Cherry Hill Nurseries' unique position in the Peony world to-day.

Catalogue mailed free on request

CHERRY HILL NURSERIES

(T. C. Thurlow's Sons, Inc.)

WEST NEWBURY, MASS.

NOT OPEN SUNDAYS

This doorway spells *home*

Is it the arched arbor of fragrant blooms . . . the pleasant lights at either side . . . the lantern overhead? Certainly these spell home. But notice the friendliness of the hardware—the handle and knocker of solid gleaming brass waiting your eager hand upon the door!

FOR the doorway of your home there is just the correct Sargent handle and lock, hinges and knocker of solid, time-defying brass or bronze. These will be more than harmonious, more than charming. They will be rust-proof, fault-free and secure. Be sure you get the Sargent kind—for inside doors as well, for cupboards, closets and every window. The greater satisfaction far outweighs the slightly higher cost. Write for the free Colonial Book and choose them with your architect. Sargent & Company, *Hardware Manufacturers,* 48 Water Street, New Haven, Conn.

SARGENT

LOCKS AND HARDWARE

(Continued from page 474)

Trim hedges when the season's growth is under way but before it gets very large. If you have great expanse of hedging there are special machines for this purpose which greatly lighten labor; even motor driven appliances are available.

Among the flowering shrubs to prune now are: Akebia, Azaleas, (Ghent and Mollis), removing the old wood, Berberis, Bignonia, Strawberry Shrub, White Fringe, Dogwood, Japan Quince, Deutzia, Forsythia, Herbaceous Hydrangea, Jasmine, Lilac, flowering Currant, Rhododendron, climbing Roses, Spirea, Viburnum, Weigela. If they have been neglected in previous years, do not be afraid to take out the greater part of the growth.

AS TO LAWNS

THIS is the test month for lawns. They either make good or show now that they are no good. Some help can be given by topdressing with nitrate of soda and bonemeal. It must be followed up by real work next month. Use the best lawn seed mixture you can buy—its name doesn't matter much, but the best highest priced mixture put up by any of the standard seed houses may be relied upon, and as a matter of fact there are precious little differences between them all. Use humus as a topdressing. It acts as a light mulch too. Remember that mowing and rolling are real aids in lawn management. Use the heaviest mower you can operate. The extra weight is an added advantage to the motor driven mower which rolls heavily as it cuts.

A VEGETABLE FOR LATE SALAD

THOSE of our readers who have not yet had the pleasure of eating the so-called Chinese Cabbage or Pe-Tsai, should try it this year. There is still time to start. It is a really delightful salad plant. It is a cool weather loving plant so spring sown seed does not produce good plants, but early summer sown seed allows the plants to develop during the cool fall weather. Grow in rows like lettuce, two to three feet apart, one-half to one foot apart in the rows. Growing they somewhat resemble monstrous heads of Cos lettuce.

It is never too late to start a garden, particularly a vegetable garden. School is over, the wife and kiddies have gone to the cottage for the summer. Will they get all the vegetables they need while there? Lettuce may be had in a few weeks; radishes in three weeks; string beans and summer squash in six weeks.

In the home garden set late Celery, Cabbage and Cauliflower plants. Sow seeds of Carrots, Turnips, an early variety of Peas, String beans, Beets, Endive, Lettuce, Radishes. No doubt many of these are now growing in the garden but you need them for succession. These late sown seed of root crops give the best crops for storing. And Corn! By all means sow now and again about July 15 some Golden Bantam Corn. It is a good gamble you will be rewarded about the time of late frosts with fine ears.

FLOWER SEEDS FOR NEXT YEAR

ONCE more we suggest turning to the pages in the catalogues which enumerate perennial seeds and order. Sown this month the plants will bloom next spring.

Chrysanthemums, the hardy ones, must not suffer for the want of water if you want fine blooms next fall.

Weeds—keep them down. Of course it means work but no greater compensation is given for the time and trouble put in the garden than the exercise which one derives from it, for it puts one in good physical condition.

One of the greatest pleasures in gardening is in visiting other gardens. Just now we suggest visiting a big collection or a large planting of the Japanese Iris. When planted in masses they certainly form a very prominent, and also a most beautiful, feature of the garden. The notion they must be grown in connection with water is erroneous. They do exceedingly well on the edge of streams and ponds, but there are fine collections in gardens which have no water except the rain.

Front yards are usually attractive, but how about the back yard? Recently we traveled through an alley back of some city homes. The yards were enclosed in ugly board fences—all but one. This yard was enclosed by a hedge of Rose-of-Sharon and one entered through a simple litch gate covered with American Pillar Roses. It was a gate that asked you in. Another thing was noticed. Board walks were the rule, but when one entered the gate of this yard, little flagstones with grass between formed the walk. The cost of these little touches was not great but what a difference they made! P. T. B.

Be a Self Starter

THE most grateful beauty of the garden year is given by the flash of bloom of the little spring perennials. This is the month to propagate them. Their beauty is dependent upon mass. Individually some of them are rather insignificant. The finest of these little plants that prove an annual delight do not come true from seed so it is necessary to propagate them from cuttings, "slips" as we were brought up to call them in our early youth.

(Continued on page 478)

Professional Rose Sprays That You Can Now Use

They Contain a Famous Fertilizing Element

A widely known rosarian was the discoverer of this wonderful chemical which *fertilizes the rose through the foliage*. For years it was the secret of the prize winning blooms of a noted rose garden. Now it is available for use by every lover of roses. With it you can obtain astonishing foliage and blooms of incomparable beauty.

This professional fertilizer has been named *Hortogen*. It is contained in all these unique companion sprays.

Fungtrogen
FUNGICIDE FERTILIZER

Controls Mildew, Blackspot and other diseases. Its Invisible film protects and fertilizes.

Postpaid		Postpaid	
Pints	$1.50	Half Gal.	$4.00
Quarts	2.35	Gal.	6.50

Insectrogen
TRIPLE SERVICE
FUNGICIDE · INSECTICIDE · FERTILIZER

Combats leaf-chewing insects, caterpillars, slug worms, Japanese beetle, etc. Use alternately with Fungtrogen.

Postpaid		Postpaid	
Pints	$2.00	Half Gal.	$5.00
Quarts	3.25	Gal.	8.50

Aphistrogen
APHICIDE FERTILIZER
TRADE MARK

The Aphicide Supreme. For all plants subject to aphids or plant lice.

Postpaid		Postpaid	
½ ozs.	$1.00	2 lbs.	$ 3.85
¼ lb.	1.50	12 lbs.	16.00

All are complete; only water need be added.

For sale by leading dealers; or direct from us upon receipt of price if you will mention your dealer's name. Send for literature.

Chemical Products Division

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(*Established 1897*)

17th and Filbert Sts. Philadelphia

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Peonies— For Your First Planting

We call this our "Backbone" Collection because each variety will always have a place in every well-selected Peony planting. It is a permanent investment in Peony satisfaction.

Each is an Approved Variety. The roots will be strong divisions from mature stock of Approved Quality, especially grown to give quick-blooming results.

This "Backbone" Collection, $15.00

The 12 Best Peonies at Reasonable Prices

JAMES KELWAY. Fine, flesh white, early... $1.50
MARIE JACQUIN. The waterlily white, midseason. 1.50
MME. EMILE LEMOINE. A wonderful white, midseason. 1.50
BARONESS SCHROEDER. Beautiful rose-white, late. 1.50
OCTAVIE DEMAY. Dwarf light pink, early. 1.00
VENUS. Finest shell pink, midseason. 1.50
REINE HORTENSE. Very large hydrangea-pink, midseason. 2.00
MME. EMILE GALLE. Delicate flesh-pink, late midseason. 1.00
CLAIRE DUBOIS. Very large violet-rose, late. 1.00
SARAH BERNHARDT. A divine pink, late midseason. 2.50
KARL ROSENFIELD. King of the reds, mid-season. 2.00
ADOLPHE ROUSSEAU. Gorgeous dark red, early midseason. 1.50

All 12 Approved Varieties $15.00

Send your order now for this best-of-all Peony Collection to be shipped by express for early September planting. Or, you may select from the above at prices quoted.

FREE Catalog of Approved Peonies

Our Approved Peony List represents our selection of the tried and true "aristocrats" of the peony world, based on personal experience in growing hundreds of varieties.

Every root from our plantings must also be of Approved Quality. Stocks are selected both for vigor and quality of bloom, and are grown to maturity before being dug.

Write today, before you forget, for our 1926 Approved Peony Catalog. It also contains comprehensive lists of fine Irises, Gladioli, Tulips, Lilies and Phloxes.

Visitors always welcome at our Farms, one mile west of Baldwinsville on the Rochester-Syracuse highway.

INDIAN SPRING FARMS, Inc.

Harry F. Little, Vice Pres. and Gen. Mgr.

Box G Baldwinsville New York

This picture illustrates an extreme case

Is hunger or thirst killing your trees?

Look at the tops of your trees. Are the leaves thin and yellowish? Are they undersized? Are they inclined to turn brownish and curl up? Are the uppermost parts of the trees thinner than the rest? Are there little dead branches showing at the tops of the trees?

These signs are unmistakable evidence of trouble. It is practically certain that such a tree is dying from either hunger or thirst or both. The tree is a living thing. It requires food, and it must have water. Under semi-artificial conditions, the soil is gradually exhausted of its food elements. Such a tree must be fed, for exactly the same reason that a good farmer fertilizes his fields. Get the advice of Davey Tree Surgeons quickly. They are local to you.

THE DAVEY TREE EXPERT CO., Inc.
563 City Bank Building
Kent, Ohio

Attach this coupon to your letterhead and mail today

Reg. U. S. Pat. Off.

JOHN DAVEY
Father of Tree Surgery

THE DAVEY TREE EXPERT CO., Inc.
563 City Bank Bldg.
Kent, Ohio

Gentlemen: Without cost or obligation on my part, please have your local representative examine my trees and advise me as to their condition and needs.

New Electric Machine Improves Your Floors 100%

With it anyone can remove old finish . . . scrub, wax and polish floors . . . and keep them more beautiful than you ever dreamed possible.

A NEW and extraordinary method of caring for floors is here offered you.

It is radically different from anything in your experience. It is the application of electric power and mechanical genius to an old, old problem.

New floors and old . . . both show amazing improvement.

Five Astonishing Results

The Ponsell Electric Floor Machine brings you five important benefits.

First, it removes from a wood floor all the old wax, hardened dirt and varnish. Once more you see the lovely surface of the wood itself.

Second, it sandpapers the surface to a texture of satin.

A skilled carpenter, working many hours could not make that surface smoother.

Third, it rubs wax into the wood. It rubs with a speed and vigor impossible to attain by hand. Thus, by friction, the wax warms, spreads evenly over the entire surface, goes 100% farther.

Fourth, it polishes—and *how it polishes!* Your floor gleams with a surpassing luster, assumes a mellow, natural glow, glistening on in spite of dust and footsteps.

Fifth, the machine scrubs such floors as need scrubbing. Thus it cleans them thoroughly, more thoroughly perhaps than they have ever before been cleaned.

The Ponsell Electric Floor Machine

Considering its advantages, the Ponsell costs absurdly little and consumes less than three cents' worth of electric current per hour.

All Hard Labor Banished

Have you ever watched a floor being scraped? Have you ever tried scraping one yourself? Or sandpapering one? What back-breaking, exhausting labor!

Yet the Ponsell machine performs these tasks with the guidance of your finger tips. It saves human energy not only in the occasional work of refinishing but also in the more frequent work of cleaning and polishing. Gone is the bending and stooping, the wear and tear on your hands of water, soap, cleaning fluids, scrubbing brushes and wet rags. Gone is the excessive muscular exertion of rubbing and mopping and drying.

Floors of All Types

It makes no difference what kind of floors you have—this little machine will put them in first class condition and keep them so. If they are wood, it will refinish them, or clean them, or polish them. If linoleum, it will scrub them to spotless cleanliness, then polish them until your face is mirrored. Tile, marble, mosaic or rubber—cork, terrazzo or cement—the machine wins enthusiastic praise for its saving of human strength, its speed in doing the work, and the perfect condition to which it brings the floor.

No Skill—No Muss

You know what it is to have workmen in the house. You know the dirt and litter that comes with them. You know the annoying damage to your possessions that usually follows in their wake; you know that you will pay a good high price for the work they do. Refinish floors yourself and you avoid all this.

With the machine it is ridiculously easy. No skill is necessary, no great strength or energy. The machine is easier to operate than a vacuum cleaner. You do not push or pull it—you simply guide it. In a few minutes, eight-year old children have become expert in its operation.

Already 3106 in Use

This machine is no mere experiment. It is the outgrowth of fourteen years of study and research by men who have made the care of floors a science. In 3,106 homes this little machine is setting new standards for well-kept floors. We have letters from people of high standing in all parts of the country telling us what a boon the Ponsell machine has been to them.

"Greatest labor saving device we have" says one woman. "Old, neglected floors now in good condition," reports another. And still another writes, "Have lost my dread of waxing days."

A Demonstration Free

Our greatest argument is the machine's actual performance. You owe it to yourself to see a demonstration. You owe it to your home to learn more of this wonderful machine. Use the coupon; ask us for further information; let us tell you the address of our nearest branch office where you can arrange for a free demonstration in your own home—or a 10-day free trial if you are too far from the office.

Ponsell Floor Machine Co.
Dept. 37
220-230 West 19th St., New York City

Please mail me complete information and prices regarding your Electric Floor Machine. This does not obligate me in any way whatever.

Name.....

Address.....

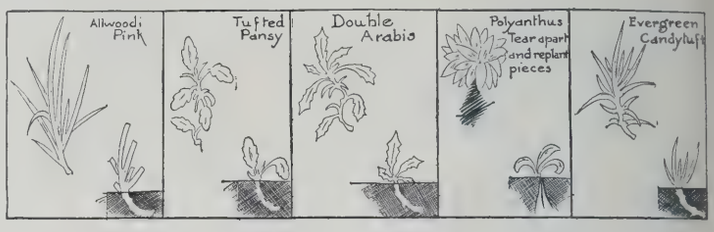
City.....State.....

G. & H. B.-7-26

(Continued from page 476)

A box of sand is the best medium. Lacking this, sandy soil or a shaded bed in some convenient corner of the garden will serve the purpose. After their flash of bloom and the period of maturing seed, these spring perennials make new growth. From this the cuttings are taken.

The Double Arabis, one of the finest white flowers of early spring, resembling a miniature ten weeks' stock, can be propagated only by cuttings. It is disappearing from catalogues and now retails at 50 cents a plant. A year-old plant will give material for a dozen or more cuttings. Take these cutting below a bud—the juncture of the leaf and stem. Trim off the leaves for an inch or so and set to the tuft left at the top.



If a sand box is used, keep it wet and let it have sun. If earth, place it in the shade. The same method applies to the handsome Purple Rock-cress or Aubrietia, the Evergreen Candytuft, to desired forms of Tufted Pansies, and to the Hardy Alyssums. It is easier to secure a stock of sturdy plants from cuttings than to raise seedlings.

There is a decided revival of interest in the great tribe of Pinks, due largely to the growing interest in rock gardening and the introduction of the Allwood Pinks (Dianthus allwoodi). The Allwoodis have the handsome markings of the old Grass Pinks and the texture and stems of Carnations. They are very fine garden plants easily raised from cuttings. Treat in the same manner as the spring perennials but snip off the ends of the leaves—about half their length. Nearly all the Pinks may be propagated in the same manner this month.

Primroses and Polyanthuses should be divided every third year. Dig up the plants, shake the earth from the roots and pull apart the crowns into single pieces with a few roots attached and replant.

Sow seed this month of Iceland Poppies and Siberian Wallflower (Cheiranthus allioni) for a gorgeous display next spring. Lime the soil for the Wallflower. Try it also with the somber toned Tall Bearded Irises such as Ambassadeur, Alcazar and Lent A. Williamson.

July Reminder for the Far South

ASSUMING that the amateur gardener has but an hour a day to devote to his garden, the advice for July is "Spend that hour weeding." We are not quite in the tropics, here on the Gulf Coast, but we frequently have a tropical wet season in July, and weeds grow so fast, so tall, and so thick it is almost impossible to keep ahead of them! It is hard to pull up weeds, when they grow among the small annuals, without uprooting the annuals themselves, but with the ground so soft and wet, the flowers can be saved by "firming" the soil back around them with the hand after carefully pulling out the weeds, the Nut-grass and the Bermuda-grass.

Having spent an hour on your knees weeding, stand up and look at the vines, and you will realize that an hour a day is not enough for the vines need almost constant tying back—they grow so fast in this warm, wet weather. But vines can be tied back without getting one's self hot and mussed, so hang a basket of raffia on the gallery or under the arbor where a bit may be taken up while passing and the over-hanging vine tied back. This is pleasant work for the gardener after dinner, until dark.

July is the time to cut back Dahlias, Chrysanthemums, and Poinsettias, so they will not become too weedy, and to force them to put on more heads. They should all be staked and tied. If single large blooms are wanted on Dahlias and Chrysanthemums, trim off all but the strongest and straightest stems and remove most of the lower foliage then tie each stem to a stake, tying about one foot from the bottom and again every foot as they grow. It is well to cut Poinsettias back to within two feet of the ground, place a strong stake back of them, and as they grow encircle them with a band of rope, raffia, or wire, taking care that the band is securely fastened to the stake. Poinsettias must be handled with great care as they break very easily. The best wire for this purpose is discarded electric light cord, for the wire in it makes it strong and the insulation keeps the wire from chafing the plants. It is usually in green or dark colors and therefore does not show much. Chrysanthemums should have soap suds shaken over them frequently to keep off plant lice. Use a whisk-broom for this.

July is the one month in the twelve when it is not advisable to plant seeds in this climate; except for such heat-loving plants as Torenias, Balsams, and Portulacca, seeds sown later than June will be wasted.

(Continued on page 480)

IRIS for Present Planting

I promise you plenty of fine flowers from Irises planted during July-August. Here are several selections of my choice. Many other fine varieties are listed in my catalog for which please write. In description below S stands for upright petals, F. for drooping petals.

IRIS GERMANICA

A Glorious Dozen for $3.00 (Worth $4.50 or More)

Arnols—S. rosy bronze, F. purple.
Caprice—S. rosy red, F. deeper red.
Dusky Maid—S. buff, F. mauve-purple.
Her Majesty—S. rose-pink, F. bright crimson.
Juniata—S. & F. clear blue.
L. A. Williamson—S. campanula-violet, F. royal purple.
Lohengrin—S. mauve, F. Chinese violet.
Monsignor—S. violet, F. purple-crimson.
Perfection—S. light blue, F. Violet-black.
Prosper Laugier—S. light cinnamon, F. violet-carmine.
Quaker Lady—S. tawny lavender, F. ageratum blue.
W. F. Christman—S. white, F. purple.

6 Choice Sorts Worth $8.00 for Only $5.00

Anna Farr—S. white, F. pure white marked blue.
Anne Leslie—S. white, F. rich carmine.
B. Y. Morrison—S. lavender-violet, F. purple.
Quaker Lady—S. tawny lavender, F. ageratum blue.
Queen Caterina—S. lavender-violet, F. white.
Zua—Light lavender, ruffled edges.

Very Choice Mixture (not labeled) 100 for $5.00, 1000 for $45.00.

SIBERIAN IRISES

My stocks of **Siberica Alba, Orientalis,** and **Snow Queen** are exceptionally good so that I can offer them at **25c each, $2.00 per doz., $8.00 per 100.**

DWARF IRIS

Charmer, light blue; **Atroviolacea,** dark blue; **Orange Queen,** yellow. One of each for **$1.00,** three of each for **$2.00.**

If you should find one or two extra in the package, do not return them, they are yours. I sometimes do better than I promise.

GEORGE N. SMITH
167 Cedar Street
Wellesley Hills, Mass.
(The Peony Man)

Roto-Rain

One of the most wonderful rotary sprinklers ever made. Throws a fine spray over a circular area ranging from 20 feet to 80 feet in diameter. See from the picture above how beautiful it is in action. Price $15.00

Mor-Rain

A general, all-round rotary sprinkler. Waters both full and half circles up to 50 feet in diameter. Price, only $3.00

Tu-Way

Ideal for small lawns or odd shaped spaces. Waters a circular area up to 30 feet in diameter; or can be changed instantly to water a half circle. Price, only $1.00

"Rain" for Every Lawn and Garden

There's a Skinner Sprinkler for every need

USE a Skinner Sprinkler and you solve your watering problem. You'll have "rain" whenever you want it. You'll protect your lawn and garden against the withering effects of the hottest sun. You'll see them grow and thrive through the longest drought.

Regardless of the size and shape of your place, there's a Skinner Sprinkler that exactly meets your needs. The complete Skinner line includes the border, concealed, oscillating, rotary, and stationary types. Each is designed to do a certain kind or kinds of work—for some serve a number of purposes. Each is the highest development of its type. Each is guaranteed to give the maximum of service with the greatest economy and efficiency.

Low in Price—Free Trial

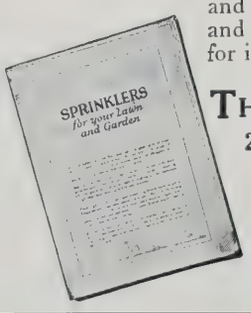
And whichever type you choose, remember that, quality of performance and durability considered, Skinner Sprinklers are the lowest priced sprinklers in the world. You'll appreciate this when we tell you that the one best suited for your needs may be had for as low as $1.00. *And any sprinkler in our line can be had on free trial!*

All this is the result of our 25 years of experience in providing better overhead irrigation. From all over the world, estate and home owners, florists and market growers come to us with their watering problems. And our engineers solve these problems. Today we offer you the benefit of this experience in the improved sprinklers that bear our name.

Get This Free Book

Ask for our booklet "Sprinklers for Your Lawn and Garden." It gives you valuable hints on how to start and maintain a beautiful lawn and garden. It tells you how and when to water, and what kind of a sprinkler to use. It's free and it doesn't obligate you in the least. Write for it today.

Send for this book—it's Free!



THE SKINNER IRRIGATION CO.
219 Water St. Troy, Ohio

SKINNER SYSTEM OF IRRIGATION.

You, too, will love these Japs

CHARMING creations with petals of silky sheen holding quaint tufts of often contrasting colored petaloids. There is a dainty airiness to Japanese Peonies not met with among the regular types. Try this Quintet:—

	Each
BOBBIE BEE – Red with golden center	$2.00
CROWN ON CROWN – Various shades of pink	2.00
GYPSY – Dark, tyrian rose	1.00
LABOLAS – Dark crimson	1.00
LEMON QUEEN – Pure white	2.00

One Strong Root of each of above for $5.00 postpaid

These All American Six Sorts for $6.00

Here is as fine a selection of American thoroughbreds in "Pineydom" as we'll ever recommend to you from among the medium priced varieties:—

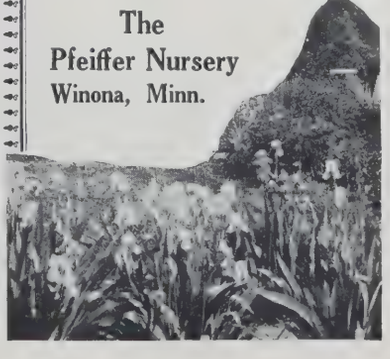
	Each
BEN FRANKLIN – Red	$1.00
MARGARET GERARD – White	1.00
CHARLES McKELLIP – Deep red	2.00
WM. PENN – Rose	1.00
FANNY CROSBY – Pink and yellow	2.00
SISTER ANNIE – Pink	1.00

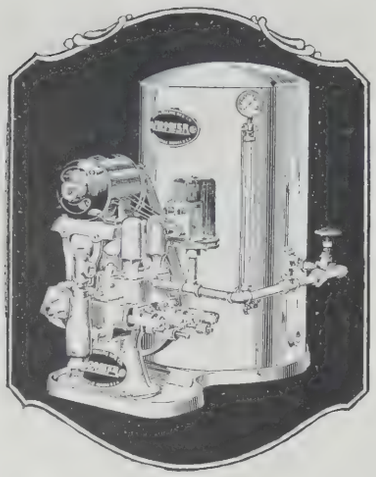
One Strong Root of each of above for $6.00 postpaid

Also Irises Galore

Over a hundred varieties of Iris Germanica now are at home in our Nursery, not counting the Dwarfs, Siberian and Novelties originated by us. Please write for our free catalog designed to acquaint you with what we grow.

The Pfeiffer Nursery
Winona, Minn.





The right kind of

WATER SERVICE

It is important to get the RIGHT KIND of water pumping equipment to meet your requirements.

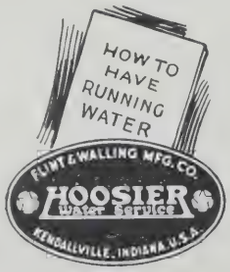
There is a HOOSIER service that will exactly fit your individual needs. It will give you running water ALL the time, take the water from any source, pump it with any power.

Not "just another water pump." A HOOSIER is actually different and better. With its GALVAZINK protection, inside and out, it will give you more years of uninterrupted water service for bath, kitchen, garden, lawn and every home purpose.

Flint & Walling Mfg. Co.
43 Oak Street
Kendallville Indiana

FREE WATER BOOK

This book will show you the KIND of water pumping equipment that will suit YOUR requirements. It's brimful of information that you should have. And it's yours FREE for the asking. WRITE!



GALVAZINK
REG. TRADE MARK
WATER SYSTEMS

(*Continued from page 478*)

To fill in gaps left when early annuals are pulled out, Coleus, Geraniums, Begonias and many other showy plants may be set out if purchased in pots from the florist, or grown in your own seedbed.

Break the top soil around Roses and other plants whenever it is dry enough between showers, for the rains tend to make it pack and the sun to bake it.

Give the lawns an extra dressing of loose, well mixed sand and well rotted manure, spreading evenly over the surface so that the rains will pack it between the blades and if it does not rain every day, soak the lawn with the hose.

Do not leave old fruit on your peach, fig, or pear trees, nor dried grapes on the grape vines. They harbor the spores of blights and will ruin next year's crop.

Most of the gardening in a wet July can be done with a weeding hoe, a pruning knife, and a handful of raffia.—E. H.

California Garden Calendar

SEEDS for spring flowering may be sown this month. Sow Anemones, Pansies, Violas, Hollyhocks, Carnations, Wallflowers, Stocks, Candtyuft, Delphinium, Phlox, Marigold, Forget-me-not, and Primroses, and the biennial Canterbury-bells and Foxgloves. These may be sown in the open ground, or better still in flats filled with equal parts of sand, loam and leaf mold. Shade the boxes with cloth or paper and water carefully and regularly. These plants may be set out in the late autumn to replace spent plants, and will bloom in the winter and early spring.

Remove the weeds before they go to seed. If growing where it is not expedient to dig them up by the roots, use a weed-killer or drop a little gasoline in the center of the plant. Watch for seedlings springing up under perennials and annuals, transplant them into boxes, keep well watered and set them out in the spring.

It is well to look after the window boxes, hanging baskets and indoor plants at this season. Do not let them dry out, and fertilize with bone-meal and liquid manure. Nitrate of soda may be used as a stimulant, enabling the plants to assimilate better the foods in the soil. Use in the proportion of one part of nitrate of soda three of water; or it may be sprinkled around the plants and the ground watered afterward. Doses of ammonia may also be given in the proportion of one teaspoonful to a gallon of water.

The autumn blooming plants should receive particular attention at this time. Stake and support Chrysanthemums and keep them well watered. Remove all the weak shoots, allowing one to four stems to a plant, according to size of blossoms desired. Also securely tie up Dahlias cutting out weak shoots. Thin out the buds that the blossoms may be larger and finer and remove all faded blossoms. Keep the beds well soaked and fertilized, using liquid manure once or twice a week, and keep well cultivated. Also irrigate Cosmos and the late-blooming Campanula pyramidalis (Chimney Bellflower), which should be well supported with tall stakes.

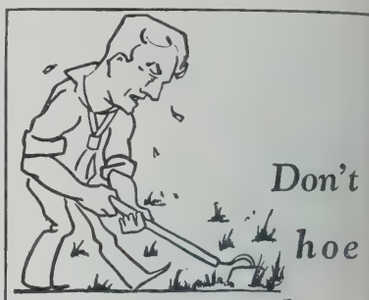
Roses should be allowed to rest during July and August and the autumn blooming will be all the better for this inactive season. Prune the bushes by cutting back the shoots that have bloomed, taking out the superfluous shoots and saving only the best, do not give them too much water, but conserve the moisture by cultivation and mulching. Fertilize with bone meal, and if orange rust appear, pick off the infected leaves and burn them, and spray the bushes with copper fungicide.

Freesia planting may begin now, planting the bulbs about two inches deep and five inches apart. Irrigate Cannas and Gladiolus, but do not let manure come in contact with the corms of the latter. Do not water the garden by sprinkling but make irrigating ditches running around and through the beds. Make little basins around the shrubs and trees, and fill both ditches and basins from the hose, soaking thoroughly. Cultivate afterward and mulch the basins and shrubs with straw or old manure. If the bedding plants are close together use a hand digging fork, guarding against injuring the shallow-rooted plants.

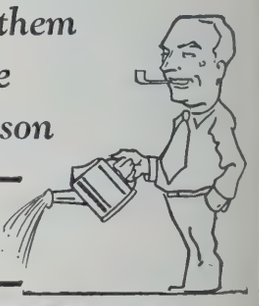
If any trees, shrubs, or vines were moved this year, they should be well cultivated and watered and they will respond to this care by better health and growth.—E. U.

Average Day and Night Temperatures for Greenhouse Plants

Asparagus plumosus	70 to 60	degrees F.
Carnation	60 to 50	" "
Chrysanthemum	55 to 45	" "
Easter Lily	65 to 55	" "
Lily-of-the-Valley	85 to 90	" "
Rose	65 to 55	" "
Smilax	60 to 50	" "
Violet	50 to 40	" "



Don't hoe weeds— Kill them the Wilson way— just spray—



Wilson's
WEED KILLER

No hard labor, no fuss, no trouble... just dilute Wilson's Weed Killer (liquid), with water... a watering can... sprinkle the weeds... that's all... so easy. One thorough application lasts a season.
FREE... Write for folder
In writing, mention your dealer

Andrew Wilson INC.
DEPT. A.
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The Glen Road Iris Gardens
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Specialize in rare and fine varieties of Bearded Iris.
American and European
Send for Catalogue.

ADVANCE
Bulb Catalogue

Our advance Bulb Catalogue lists and fully describes the finest varieties of *Dutch, French, Japanese and American* Bulbs, for delivery in the autumn.

Attractive prices for orders sent up to July 15th.

Catalogue sent on request.

Stumpp & Walter Co
30-32 Barclay St. New York

WHITESHOWERS
RAINBOW
SPRINKLER

A most unusual sprinkler that will give dry weather a real battle—and win. ¶ For lawns, flowers, shrubbery, vegetables—everything. ¶ This Rainbow Automatic Sprinkler is "right as rain"—waters evenly, thoroughly with no flooding or missing. ¶ Waters a ***square***—as much as 60 by 60 feet—3600 sq. ft. at a time—or as small an area as you want by turning down tap. Catches the corners. ¶ It oscillates—rocks back and forth. Makes a fan shaped spray. Beautiful in operation. Practical. Durable. Does the work of 3 or 4 ordinary slovenly circle sprinklers. Takes the place of more cumbersome apparatus. Weighs only 25 lbs. Mounted on wheels. Easy to move. Attaches to hose. ¶ Saves time, labor, water. ¶ For Estates, Golf and Country Clubs, Parks, Hospitals, Institutions, and average lawns or gardens. ¶ Write for folder. Or send order. Price $40.00 f.o.b. Detroit. Finest sprinkler built. Money back guarantee. ¶ We also make other types of irrigation to meet any watering requirement.

WHITESHOWERS
6458 Dubois Street **Detroit, Michigan**

Now Is the Time to Stop Them!

The Rose Bugs that you now permit to ravage your roses, will not only destroy your loveliest blooms but will become the ancestors of countless generations unless destroyed at once by

Melrosine

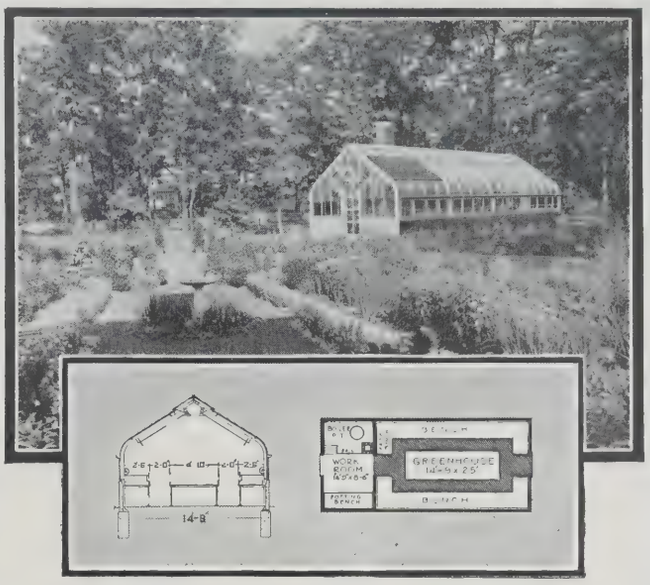
The Greatest of All Rose Bug Remedies:

Rose Bugs breed with alarming rapidity. Kill them NOW and there will be few next year! Unremitting vigilance at this particular time, together with the diligent use of MELROSINE will save your roses and make your garden immune from Rose Bugs.

Why Raise Roses to Feed Bugs when a Dollar's Worth of MELROSINE will protect a dozen bushes all season? At your dealer's or direct—instructive leaflet mailed free on request.

GARDEN CHEMICAL COMPANY
Park Avenue & 146th Street **New York, N. Y.**

Hitching $1700 House



$565 Down And 12 Monthly Payments

ISN'T it so, that you have always wanted a greenhouse, but haven't quite felt like making the outlay in one single sum? Also, that when you inquired about their price, they seemed a bit high?

You'll be happy to know we have overcome both.

The complete materials and entire equipment for this greenhouse, giving you 487 square feet of flower-filled June, 365 days of the year, will cost the surprising small amount of $1,700.

You need pay but $565 down and the balance divided over 12 months.

That means you can have your greenhouse at once, and start right in getting your flowers in it, so they will be blooming freely as soon as the outside garden has passed.

Send at once for the booklet giving detailed facts and additional views.

If you prefer, our experienced erectors can put the house up for you at a reasonable price.

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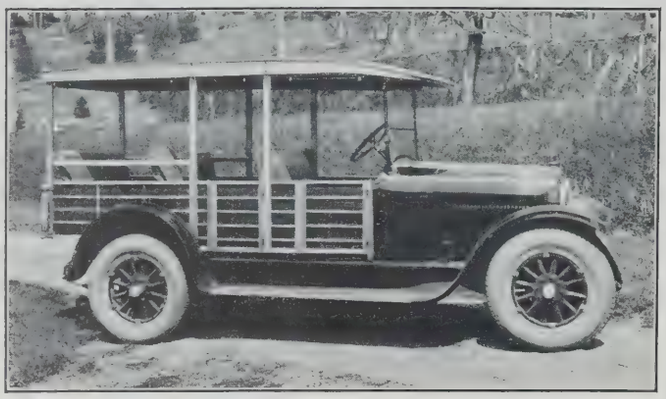


DODGE BROTHERS SUBURBAN

THE Dodge Brothers Suburban, with body by Cantrell, possesses a number of exclusive, patented features which not only add to its comfort and convenience, but also contribute to its unusually smart appearance. Built of the best materials and workmanship, the Suburban is an ideal car for hard usage under all conditions.

For detailed information see any Dodge Brothers dealer, or write us for our folder "H"

J·T·CANTRELL & COMPANY
Makers of Suburban Bodies
HUNTINGTON, N.Y.

ON THE SHORE
NEAR GREENWICH, CONNECTICUT

No. 182, situated on the shore, a plot of 1¼ acres, colonial residence with living room, dining room, breakfast room, kitchen and pantry; 3 master bedrooms, 2 baths, 2 maids' rooms and bath, sleeping porch; garage for 2 cars, grounds attractively laid out with large shade trees; sea wall leading to a sandy beach; offered at an unusually low price at this time of $35,000.—mortgage of $20,000. Owner might consider to make further terms. Quick sale desired.

For further particulars and appointment apply to

Furnished houses for the Summer
Unfurnished houses by the Year
Office open every day

Thos. N. Cooke
Post Road
Tel. 263
GREENWICH, CONN.

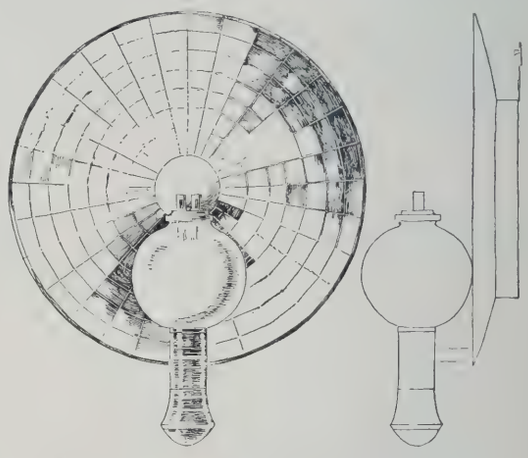
Modern Conveniences in the Art of Living

(Continued from page 461)

days. Whatever the facts are about the winters outdoors there is no question but that the saying is correct as far as indoors goes.

The big fireplaces would keep one side of a man warm downstairs but upstairs there were not so many fireplaces and the rooms were bitterly cold. In warming them by furnace heat we have lost one luxury that has not been replaced. A bed warmed by a warming pan cries aloud of luxury and comfort in a way that no bed does to-day.

Incidentally the old beds were strung on cords which does not compare with the modern box spring, nor were the old mattresses as good as mattresses are now.

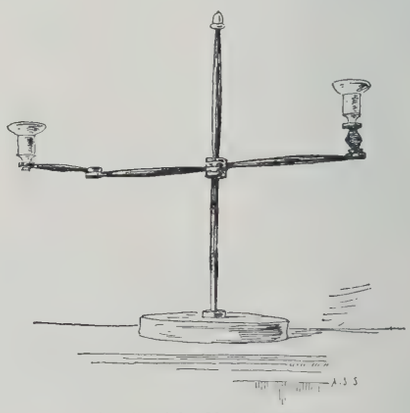


Oil lamp with mosaic mirror back 9 7/16 inches in diameter.

The old beds were beautiful but humpy. The copies that are made now are equally beautiful and smooth.

The use of gas did not stay long enough in American life to produce a beautiful gas fixture. And when the electric light first came in, the fixtures were more garish than beautiful. But little by little they are improving and our eyes are getting accustomed to the electric bulb as the symbol of light. For hundreds of years we thought in the terms of candles (and lamps). As the fixtures actually get more beautiful—as they are—and as our subconscious selves become adjusted to the new age we make a feature of lighting as did the makers of candlesticks, sconces, etc. In the Wayside Inn, the old sconces have been electrified in very clever fashion.

The tradition of ingenuity, practicability, and perseverance which characterized the Colonial American continues and while the antiquities of our past give character and background to the present, the present gives convenience and comfort impossible in the early days. And as modern living houses owe much to the old houses it is but poetic justice that modern conveniences have rescued them from decay. Scattered through the country, the old Inns lost their patronage when the railroads took away the importance of a location a day's stage ride from each city. The old inns gradually faded and were all but gone when the good roads and automobiles again brought the public back to the highways. Then the inns revamped their conveniences and came back into favor. And many an old dwelling house too was rescued by the automobile, made comfortable by the plumber and electrician and now again sheds its beauty and home-like qualities over a family.



Candlestick of iron in wood base with movable arms.

In the pioneer days there were a few indentured servants, with the increase in wealth and the inevitable crystalizing of classes the propor-

(Continued on page 484)

A Border of England's Choicest Delphiniums for 50¢

Finest of all Hardy Perennials—no wonder flower lovers everywhere are becoming Delphinium enthusiasts; but why pay $5.00 to $10.00 for a dozen plants when you can raise a whole borderful for 50c?

Hunt's Perfection English Delphiniums

come from a celebrated English private collection of Hybrids. The New Crop seed is saved and sent to us as soon as ripe. They are most distinctive in form and of giant size, huge 4 to 6 ft. stately spikes in the charmingly delicate mauves and lavenders, the fascinating gentian and sky blues, and the somber deep blues and violets—all wonderful! Beautiful beyond belief.

Price per pkt. 50c; 1/8 oz. for $1.50

Note: Delphiniums are easily raised from seed sown now, and form sturdy little plants to set out in the border in September.

Our catalog of Bulbs for Autumn planting is now ready—for special offers see June issue of this magazine—inside front cover.

Hunt's Perfection Seeds

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You will find that Lutton V-Bar greenhouses offer you the utmost in beauty, all-around usefulness, and enhanced value to your estate, whether large or small. Architects and owners alike praise its low maintenance cost and freedom from repairs. The initial cost is the final cost. Built to last, *and it does.* Permanent satisfaction is assured.

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is a good time to decide definitely just what style and size the greenhouse should be.

Let us work with you. Our experience will be very helpful.

Our new illustrated booklet, "Greenhouses of Quality," will open your eyes to the unsuspected advantages and pleasures of a glass-enclosed garden. Mailed upon request.

BVR GREEN HOUSES

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Wonderful Beauty Revealed in Farr's Unusual Irises

TRULY Irises may be called "classic flowers"—never gaudy, never obtrusive, never discordant. Each season adds to their charm, while the "magic spell of hidden beauty" holds you and leads you into a wonderland of interest and delight.

Some of the new and unusual Irises are tinted with fairy-like pastel shades; others bring forth hues that give the deeper notes to the garden color symphony. These Irises will give wonderful effects in the shrub border, beside pools and streams, along walks and drives. In fact Irises are the one flower that add refinement and grace to any planting.

Unusual Irises From Farr's

We would not assume to say that *all* of the best Irises are in our list, but we do assert that *only the best* are included—those that can be commended in no uncertain words. No varieties rated below 7 points by the American Iris Society are propagated in our fields.

Have you received a copy of our 1926 catalog "Better Plants by Farr"? This booklet presents Farr's Iris introductions, with many other varieties of unusual merit. If you do not have a copy write us and it will be mailed promptly.

FARR NURSERY COMPANY
104 Garfield Avenue Wyomissing, Pennsylvania

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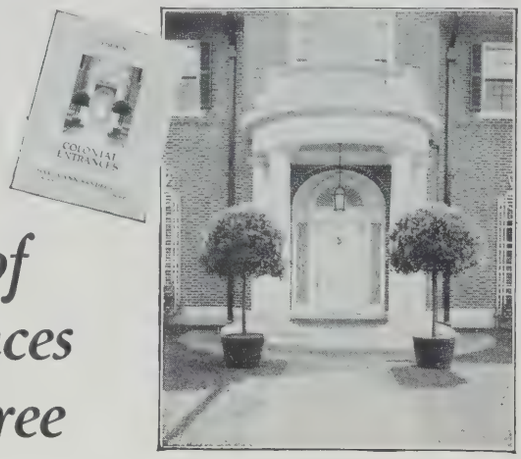

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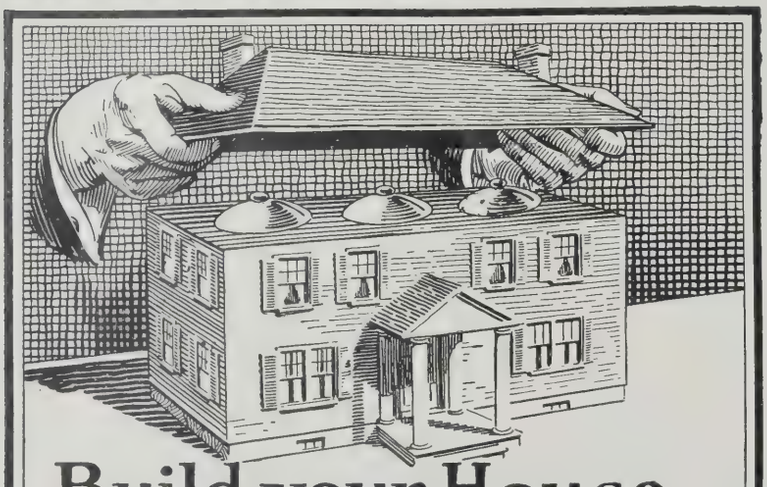

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keeps your whole house warm the same way. It holds the heat of your heater by insulation. It saves coal enough to pay for itself in two hard winters, besides keeping the house warm and comfortable for all time and reducing doctor's bills. "Build warm houses; it is cheaper than heating cold ones."

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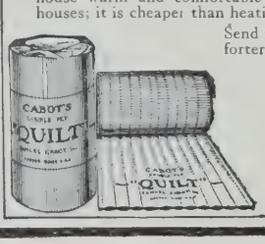

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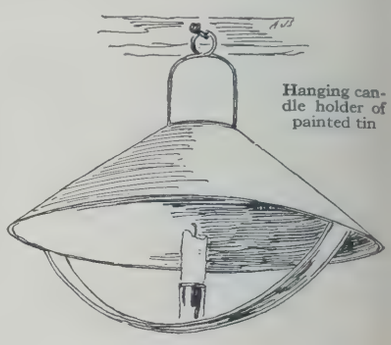
Cabot's Creosote Stains, Waterproof Collopakes
Old Virginia White, Double-White, etc.

(Continued from page 482)

tion of people in domestic service greatly increased. With mechanical power, scientifically introduced into the homes of America, a new tendency and aid to democracy came without a lowering of the standards of living. The census shows that the percentage of servants has dropped in the last twenty years. Fewer servants, but the few perform more service with the help of running water and electricity and all the power and contrivances that modern ingenuity has put into our houses. Whatever else the mechanical age may have done in our cities, it has salvaged at least the housewife.



Hanging candle holder of painted tin

The Garden Setting of the Wayside Inn

(Continued from page 445)

walls. Many an old hearth and many a fine foundation speaks of the loving pride and patient toil of the owner. In these days of speed and substitutes the house-holder looks with amaze at these great relics of past endeavor.

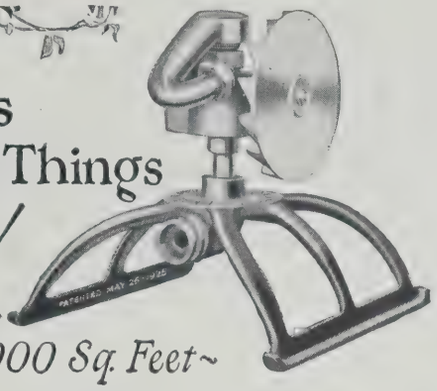
And yet with all these contrasts of the past and present The Wayside Inn possesses something inexplicable that calls us. The road from Boston sweeps across the Sudbury meadows through a wooded knoll and then away beyond open fields the Inn seems to nestle beneath the venerable Oaks, a long low-lying house, fat and substantial against the sheltering trees to the north-west. The road curves between stone walls overgrown with scrub and gay in the fall with the orange scarlet of poison-ivy. Scattered elms and maples cast flickering shadows and rounding a turn the threshold greets us, the old road leading between the gnarled trunks of oaks to the house and then dipping below the elms to cross the brook, it is an enticing road. The broad house welcomes. One feels a slight irritation at a litter of young trees across the way but these and other doubtful additions are soon forgotten. There is a sense of contentment and solid satisfaction in the feeling that whatever the Inn may lack in fidelity to historic detail it does typify our ideal of the good old days. Open handed generosity, breadth, hospitality, quiet strength, security, all these seem to merge one into another and to reach deep into our reverence of the past. Rarely indeed does a dwelling so fit its setting.

With such reserve and perfection of courteous dignity, what need is there of transient blooms to beguile us from our way? The gardens, if such there be, should not obtrude but should be kept apart, secluded. As humble adjuncts to our needs of body and spirit a garden has its place, but in these stirring days I wonder whether we can imbue our twentieth century gardens with the very needs that gave character to those of the eighteenth.

To Reach the Wayside Inn

THE Wayside Inn is located at South Sudbury, Mass., about midway between Boston and Worcester on the old Post Road, which is now the main artery for east and west automobile traffic. It is 23 miles east of Worcester and 21 miles out of Boston. Mohawk Trail tourists may leave the Boston-Fitchburg road at historic Concord. South Sudbury is 9 miles south. To Providence and the Shore Road to New York, go direct from South Sudbury to Walpole (21 miles) connecting with the Boston-Providence road at that point.

Keeps Growing Things Green/



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This sturdy, automatically operating, efficient sprinkler is sold direct from factory on money-back guarantee. Order a Double Rotary and try it 10 days. If not satisfactory in every way, return it at our expense and we will refund your money. Price $12.50 postpaid. Descriptive literature on request.

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The packets hold liberal quantities of strains that have caused the House of Dreer to become looked upon as the floral pilgrims' Mecca. The Dreer Midsummer Catalog gladly mailed free. Please ask for it TODAY, mention this publication.

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PAGE FENCE

The Quest of the Unusual in Iris

(Continued from page 463)

east side of the rocks in rich soil and shielded from the south and west sun has flourished beyond my hopes and last spring delighted me with two beautiful flowering stalks. It grows about nine inches high, the slender stem, somewhat branched, bears the tiny pinkish lavender blossoms with an orange crest. This is a temperamental little Iris, growing most luxuriantly when conditions are to its liking and being wholly unresponsive when its desires are ignored. Wood soil and half shade are its requirements also a well drained position, but at the same time it needs, during the flowering season, moisture which runs off quickly and does not stand around the roots.

Iris japonica, from central China and Japan also belongs to the Evansias. It is not hardy in the East but makes a good house plant; but in California, (where its foliage is too abundant to make it effective from a garden standpoint), it is quite hardy. It is an exquisite little flower, the individual blossom resembles a cristata in size and color, but is noticeably fringed. There are twenty or thirty blossoms on a much branched stem, two feet or more in height. The blossoms are very fleeting but there are so many of them that the blooming period lasts some time.

There is also another Evansia Iris listed in the catalogues. I. milesi from the Himalayas.

Iris Mrs. A. W. Tait, an interesting Spuria Hybrid, which produces beautiful porcelain blue flowers

POSSESSING one native Iris, in the present of the little cristata, I searched all catalogues for a possible reference to others and discovered the little I. verna tucked away in one catalogue of wild flowers. This little dwarf also comes to us from the mountains of the South and opens out its fragrant lilac-blue blossoms in May. It is said to be the nearest approach to the Bearded group found among our native Iris, which after all is some distance away. It does resemble a small pumila in form, for it has no stem and the standards are larger in proportion than those of the other natives and are quite upright. We realize at once that it in no way belongs to that class which we call easy. It sulks and is "miffy" and if it cannot obtain the conditions which it desires, quietly takes its leave. I struggled with it for some years and last spring for the first time it spread out its fans of fine stout leaves and sent up a fat flower bud. Authorities generally agree that partial shade and acid soil are its requirements. I have top dressed my plants from time to time with commerical humus. I do not seem to recall having seen anywhere any reference to the rootstock, whether it should be on top of the soil as with the Bearded group or covered with the earth. I had mine originally planted with the rhizome creeping above the ground and I count the first show of success from the time when I covered the root well from view.

Iris missouriensis is another native that I acquired shortly after the little verna. It has been on my rocks for years looking very happy and spreading in a commendable manner but never offering one blossom. I know now what the trouble has been. It did not get sufficient moisture. Thinking of it as a Rocky mountain species it seemed logical to suppose that it would be at home on the rocks. It is, however, the Iris of the mountain valleys and the meadows usually wet until after the blooming season. I am going to try the treatment I accorded gracillipes and while giving it good drainage, give it also abundance of moisture. Its flowers are a lavender-blue. There are two other varieties offered, a darker blue or Bluebird, and a white or Snowbird. I. missouriensis also grows easily from seed. It is the mountain form of I. longipetala, one of the California Iris from the coast region.

I. longipetala procured in plant form from California did not survive the first winter, although it has the reputation of being fairly hardy and not too exacting. It flourishes in moist, heavy soil, and its flowers are very effective and handsome. "Large flowers veined with violet on a white ground." The leaves of missouriensis die down in the winter while the leaves of longipetala are evergreen. There is another form of longipetala, known as Iris montana and spoken of as being particularly beautiful. I do not know it nor do I know where it can be procured. It is one of the next unknowns for me to trail.

This "collecting of labels" as someone has called it, is one of the greatest of sports and has many side issues of very pleasant occurrence. Mr. Dykes gives still another form of longipetala, called arizonica, but I have never seen it advertised, nor referred to it in any Iris litera-

(Continued on page 498)

Only five hours to put it gether—no skilled labor"

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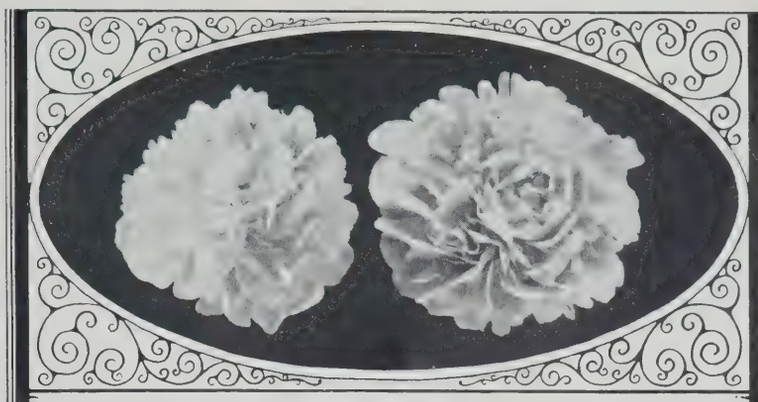

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Peony growers for more than fifty years

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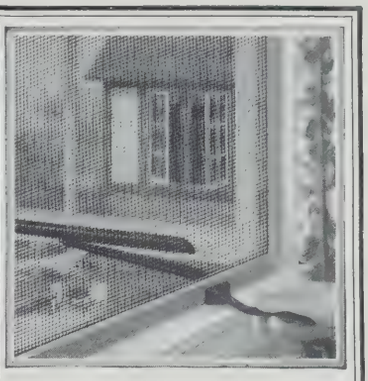

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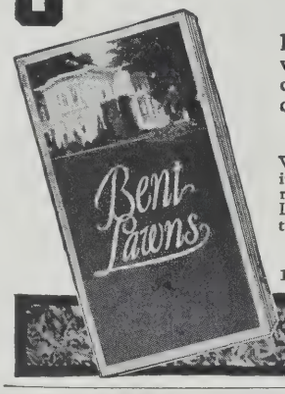

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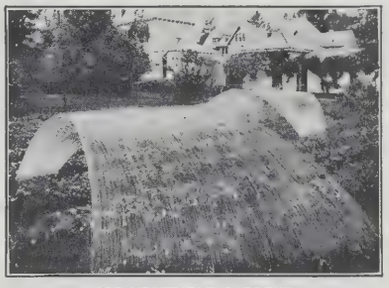

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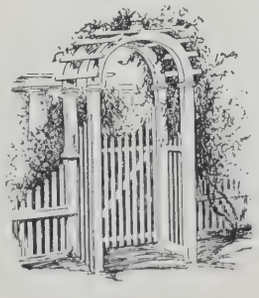

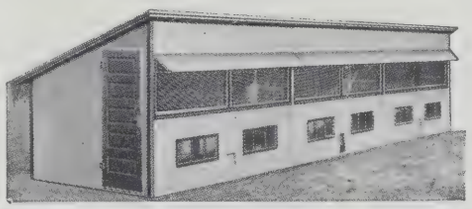

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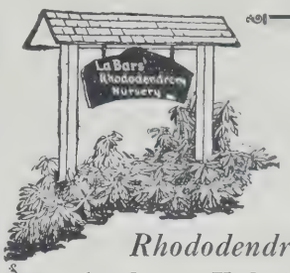

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Hearthstone Editor's Chat

This is a department for every one who has a house to build or decorate, a new interior to finish, or an old familiar room to make more attractive. It is planned for just one purpose: to bring to each home maker all the aid and advice so freely offered by the men and woman of the business world to-day. It is a meeting-place where the manufacturer, the decorators, the craftsman may place their helpful booklets, their free bureaus of service in the hands of those who value such help. Additional booklets will be listed each month.

This department is for all of our readers. Each Booklet listed may be had upon request. Order by number only and as many as you wish.

Address: Hearthstone Editor, Garden & Home Builder, Garden City, N. Y.

Comfort in the Modern Home

WITH the many comforts now for the home, it might not be amiss for the average housewife to look at this long list to see what she may have and *should* have. If she lives on a farm or in some small village, she may enjoy the comforts and conveniences of running water and modern plumbing, with bathrooms fully equipped with built-in tubs, china accessories, brass pipes that do not rust, washable walls, rubberized curtains, tile or linoleum floors. She can have oil burners to heat her house, or hot air, steam or hot water heating plants. There are porcelain sinks for her kitchen while the modern laundry has electric washers, ironers, irons, clothes driers, and fans to keep the air cool.

In the kitchen there can be electric ranges and electric cookers, gas ranges and oil stoves, each of the highest type. Also are there electric refrigerators, percolators, grills, toasters, waffle irons, bottle warmers, dish washers, while to keep food either hot or cold, there are thermos bottles and jugs from the pint size up to a gallon, both breakable and unbreakable.

The electric floor cleaner scrubs, cleans, dries, waxes and polishes the floor, while the vacuum cleaner pays for itself from the point of health alone by sucking up every particle of dust and dirt.

Electric plate-warmers keep the food at just the right temperature while there are electric radiators that may be put in flush with the bathroom wall or used like any radiator, since they are not radiant heaters but meant for permanent installation.

To eliminate steps in the too large kitchen or to save space in the small one, there are built-in breakfast nooks, ironing boards and closets that shut up in the panels of the wall. Doors also come ready to install as do doorways, posts and columns. For the floors, linoleum brings cleanliness and beauty. For the windows, there are sunfast and tubfast fabrics that range in texture from sheer net and voile to silks and damasks.

Perhaps, however, it is in the small features of housekeeping that we find the greatest number of helpful accessories. Some of these features are so strictly utilitarian that it seems impossible to connect the word beauty with them and yet these modern appliances are things of beauty. The mere matter of window screens, for instance. It might seem that a screen could be only a screen, but we can now have these necessary pieces of equipment built for the lower half of the window only, but set in metal channels extending the full height of the window so that the screen may be placed wherever desired. Like a perfectly fitting sash, it slides easily and can be used either at top or bottom of the window. The screen cloth is made of bronze and thus it becomes decidedly decorative. Then there are screens for casement windows, hinged either at the top or side; there are horizontal sliding screens with roller bearings for the group of windows and screens to fit circular-topped windows and those of special shape.

Better Home Booklets for the Asking

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Awnings, too, have become something beside strictly necessary adjuncts. Many are made of painted, sunfast materials in either plain colors or striped, while still others are made of figured materials in colors and combinations and designs that make them highly decorative. These are even made up in the form of outside curtains for doorways. Supporting these colorful awnings are carefully wrought bronze fittings in artistic design that have relegated to the background as most undesirable the customary fittings so suggestive of an iron pipe.

Instead of the old-time coal window, the modern home has a coal chute in its wall with cast-iron frame and door of steel or heavy glass that protects the walls of the house when coal is put in. There is also a package receiver in the side outer wall to receive milk, packages, etc and that securely locks the delivery within. Still another outside convenience is the electric meter box which precludes any unknown person offering the excuse of having to come in to read the meter.

Concealed garbage receivers mark a great stride toward more healthful conditions, since these heavily constructed cases to hold the garbage can are sunk in the ground with a cast-iron lid that no dog can raise and thus scatter the garbage about. This lid has a spring easily released by the housewife's foot. This is a sanitary and most pleasing solution of this problem of the kitchen. Still another very attractive answer to this question is the built-in garbage receiver that stands on a shelf on its cast-iron door in the wall, so that when the door is opened, the can swings out for use.

An incinerator is also found in the well-equipped house. This is built right in the wall with a small metal door-like chute which opens to receive garbage as well as papers and all household waste—even tin cans—all of which is burned in the fireproof chamber.

There are also several small utensils that solve such puzzles as odors in the refrigerator, keeping vegetables and fruit clean and fresh without using valuable icebox space, etc. To get rid of the odors, there is a small cylindrical perforated utensil which if placed on the top shelf of the refrigerator will take unto itself and keep any unpleasant odor; its cost is a mere trifle. For keeping fruits and vegetables, there is a galvanized iron box, enamelled, that contains three perforated shelves, the box itself being ventilated at the top and sides and having a removable tray in the bottom. This is small enough to stand under a pantry shelf or table. Still another box is called a storage rack. This is a carefully built box on casters with five shelves. The sides and top of the box are of heavy screen cloth fastened securely to the metal corner posts.

Among the very small utensils that help to simplify work is a little knife called a "butter curler." This curls the butter up into pretty coils for serving; a potato slicer which at one stroke, cuts a whole potato into long matches; an egg slicer which also at one pressure slices a hard-boiled egg into even slices for garnishing or salads. There are also small knife sharpeners and cleaners to keep the kitchen knives at their best and last but not least, there is a small electric utility motor that will do every-

(Continued on page 492)

Why the Wayside Inn is Warm and Cozy on the Winteriest of Winter days

?

How you can have the same heating in your home,

and reduce your cost of heating

If you have a good imagination you can still see Washington and his aides turning their horses into the drive leading up to the Wayside Inn. Or watch Lafayette as he gets out of his picturesque old coach at the door. It is these imaginations which give the Inn its charm. But imagination has nothing to do with the impression of snug and cozy warmth you get when you enter the Inn in winter. It is the H. B. Smith Boiler in the cellar that creates that impression for you.

You've been in people's homes that were just like this—warm and cozy on the bitterest winter day. Maybe you've envied them their comfort but consoled yourself with the thought of their coal bills. As a matter of fact, if your heating equipment does not give you all the heat you want no matter what the weather, *your* coal bills are bigger than theirs, in proportion to the size of your homes. Because it is a positive indication that your boiler is wasting fuel all the time.

The secret of boiler efficiency

The secret of boiler efficiency is in having enough Fire Surface properly Rated. When you burn fuel, a certain amount of heat is given off. If there is insufficient Fire Surface to absorb this heat, a large percentage of it is wasted up the chimney.

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It will pay you in dollars and cents, in personal comfort, in the impression of comfort which your home gives guests, and in the health of your family. For further information on this subject of efficient heating send for our free 32-page booklet described below. The H. B. Smith Company, Dept. L1, Westfield, Mass.

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(Continued from page 490)

thing from turning the freezer to whipping cream. And speaking of electricity, here are a few do and do-not suggestions to be remembered when this newest of servants is doing the cooking:

Don't use a burner on high when medium or low will do the work.

Don't use two burners at a time and have them on while food is being prepared.

Don't use larger utensils than are needed to hold the food. Use triplicate pans in which three or more vegetables may be cooked over one burner.

Don't use top burners for cooking that can be done in the oven.

Don't use open vessels for cooking; this uses 5 times as much electricity as closed ones.

Do save electricity by using the oven for cooking whole meals with switch on low.

Do save electricity by having the oven well filled with food.

Do save electricity by using small covered utensils for meat and vegetables.

Do learn to cook with the heat that has been stored up in the oven walls.

Do learn to apply the fireless cooker principles when cooking with electricity.

With special steel ventilators for installation in the attic and with even the coal chute made ornamental, from cellar to garret the modern home has been turned by the industrial world into a place most efficient and very beautiful.

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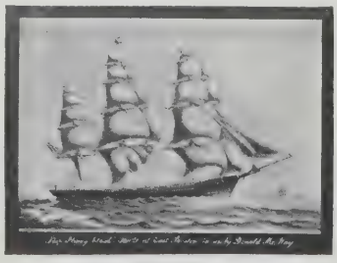

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Reclaim the Back Porch

A. Louise Fillebrown

ACROSS the back of many houses of the type built about twenty-five years ago, is a rather large porch. The end next to the kitchen is obviously for practical use; it holds the icebox, waste cans, a small line for drying dish towels, all the numerous things that must stand somewhere—useful not decorative. But the other end has no use. It looks out over the charming garden, and in the morning is flooded with sunshine. The living porch on the other side of the house is the family meeting place, and this little porch is never noticed.

Its privacy from the street, and accessibility to the kitchen, suggested a delightful plan to our family who enjoy eating out of doors. Most of us love to picnic, but sand in the coffee, or one or more of the many discomforts that usually attend picnics make it a difficult pleasure for fastidious people. However, breakfast, lunch, or late supper served on a tiny porch, with awnings shutting out the sun but not the beauty of the garden, with cool, pleasing colors in paint and cretonne furnishings, with coffee hot because it is served directly from the percolator and salads cool because they have just left the near-by icebox—all this spells picnicking with the element of luxury left in, and yet we found the furnishing of such a porch comparatively simple.

Starting with just the floor and one side wall I will show you how it was done.

Paint: The house in question was painted white, so the floor and ceiling of the porch were made a soft nile green, and over the paint we applied two coats of white waterproof varnish to protect the color in all weather.

Screen: At the end toward the kitchen a semi-permanent screen was built from wallboard and a wood moulding. It extended (at right angles) from the side of the house to about two feet from the edge of the porch floor. This left a passage for the maid to enter from the kitchen. This screen had a small brace at the bottom to hold it and reached to within about a foot from the roof. The edges were painted the same green as the roof, but the wall-board panel was covered with

(Continued on page 495)

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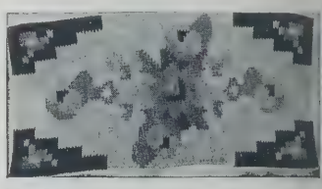

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(Continued from page 492)

one of the many "Moderne" wallpapers. It had a gay strong pattern in green, blue, orange, and black, on a white ground. It was rather Japanese in feeling, and when varnished it suggested an unusual Japanese wall panel, though its cost was much less. The opposite side of this screen was painted white to match the wall of the house.

Awnings: We used awnings to shut out the sun because we did not wish to obstruct the view of the garden with porch screens. The awnings were the usual green and white stripe, but the scolloped edges were bound with a line of bright orange which made them much more attractive. To shade the porch a little more we planted quick growing vines at each post, and before the summer was well advanced these had grown sufficiently to cast long green shadows, and to add a pleasing bit of natural green trimming to the white circular posts that held the roof.

Furniture: The furniture was the cheapest possible kind. It was to be used only for this purpose, and would be exposed somewhat to rain so we bought an unfinished kitchen table and four kitchen chairs, a child's play-table served for a side table. These were painted the same green color, but the rungs, the edges of chairs and tables were trimmed with orange, with a tiny black line at the edge. We found that if the unfinished furniture was painted first with a coat of shellac it needed much less paint to give it the desired finish. After painting the furniture we also varnished it to make it waterproof. For a rug we found a plain green porch rug was as inexpensive as anything and we made table runners out of shiny black oilcloth bound with orange, and decorated with a small section of the design on the screen, put on with oil paints. We used our usual glass and silver, but the temptation to make the china match its surroundings overcame our economical scruples. We had seen in the stores porch "china" which was really a painted metal. It felt and looked like china and it came in the gayest kind of bright flower patterns on a black ground. The insides of the cups were lined with orange and there was an orange center to the plates. It added the last brilliant touch, and made breakfast time—even on Monday morning—a gay and festive meal.

One solitary electric outlet strung from an inside socket added the last bit of comfort, for it connected with our electric toaster and other electric cooking utensils that we delighted in using. The porch was a constant pleasure all through the warm weather when everyone hates to spend any more time than necessary inside of the house.

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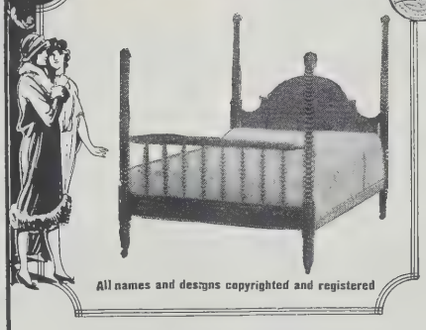

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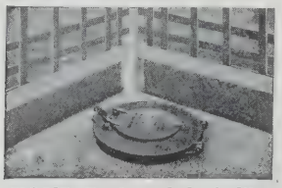

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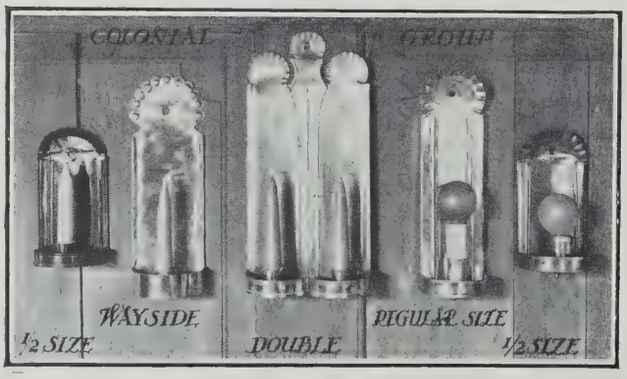

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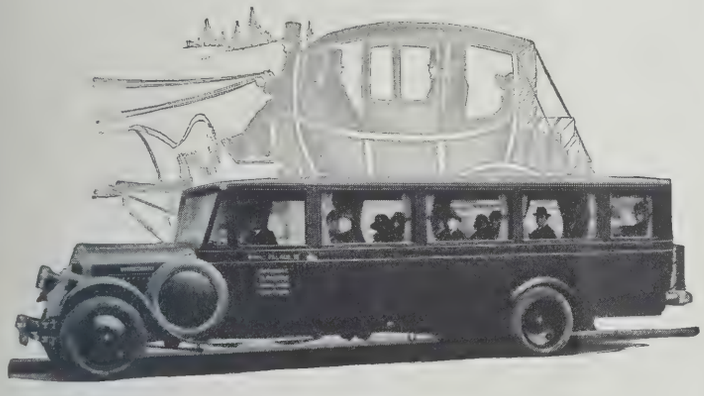

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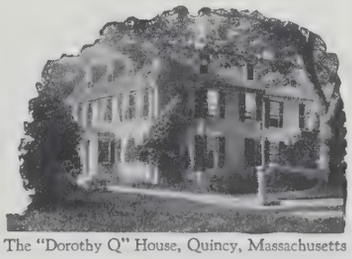

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The Quest of the Unusual in Iris

(*Continued from page 486*)

ture. There is a cross between two of these longipetala forms called Iris tollong, which we owe to Sir Michael Foster.

California has a number of other Iris which are not generally grown, as they are difficult to transplant even from neighborhood gardens there. However, they are easily raised from seed which is obtainable. Here in the East the seed is to be planted in flats sunk in the ground, with only a covering of leaves after freezing. These Iris have quite a large range of color, straw, lavender, almost a true blue, purple and very nearly a real pink. The only one that I know is I. Douglasiana, not gorgeous like Opera or Lord of June, only a dainty bit of loveliness.

Iris versicolor is the Iris of our meadows, where we can see it making blue spots among the gold of the buttercups. It likes to have its feet in water, but will grow in ordinary garden soil, being perhaps an unusual "easy." I have no water in my garden, so versicolor is in a lower spot with the sibericas and the forget-me-nots and seems to be quite contented and bloomed for me about the first of June. Those in authority consider that versicolor is not really worthy of a place in the regular garden, as it is supposed to be a somewhat rampant grower. I say supposed, for mine has not yet reached that condition and so I was able really to enjoy the blossoms which to my mind, contrary to description, were held well above the leaves and were a very pretty shade of blue. A number of forms and tints of versicolor are now reported from different localities. There is a pink or "red" variety which is effective in the mass and which is offered in commerce. I. versicolor is called the purple counterpart of I. pseudacorus, the European Swamp Iris. I. pseudacorus has a bad reputation for seeding all over the place, so I have put it in the far part of the garden hoping that its prolific tendencies may respond to restraint.

Iris prismatica is a dear little native, quite blue, blue reticulated on white, and growing with the blossom on the end of a very slender stem, which sways in the breeze as do the Sibericas, to which group it belongs. Prismatica is much lower in growth than the sibericas and the stem is somewhat bent. The foliage is very slender, like grass and when weeding one has to look very closely to be sure that they do not pull up the spreading plants. Prismatica's native place is in the damp meadows. I have mine planted where it has the morning sun and then a rose arbor partially shields it for the remainder of the day. For some reason or other there seems to be more or less moisture in the spot and both prismatica and its compatriot, fulva, thrive.

The copper colored Iris fulva is a departure from the long list of blue and purple native Iris. It comes from the banks of the Mississippi near New Orleans and also in swamp lands in the south as far west as Texas, where collected forms of different shades are reported even to pink. I. fulva belongs to the Hexagona section of American Iris, which section was thought at one time to include only three: hexagona, lamancei or foliosa, and fulva. Dr. Small of the New York Botanical Garden has subdivided the group still further and given us more species to bring to earth. Iris fulva is taller than most of the American Iris, the stem measuring from two to three feet. It is rather interesting to see the way in which it spreads, walking off toward the west, three or four inches and a cluster of leaves, three or four inches more and another cluster of leaves.

Of the two other members of the group I. hexagona comes from the Southeastern states as far south as Florida. It grows in swamp lands and needs much water during the growing season. The true hexagona is "a deep, rich shade of purple." An Iris labeled with that name is securely anchored in my garden, but it has not yet bloomed.

Three plants of I. hexagona lamancei, or foliosa, are accepting my garden hospitality reluctantly. One from a near-by garden, one from Arkansas and a third "collected in Mississippi." This Iris is of a lovely shade of blue, blooming low among the leaves. It also requires moisture.

Several crosses have been made between the divisions of this group. One, between fulva and foliosa, is Dorothea K. Williamson, by Mr. E. B. Williamson of Indiana, a most beautiful iris of a "rich, velvety royal purple." A curious result from copper and true blue parents. This Iris blooms later than the Bearded section and before the Japanese, as it were a bridge between the two big shows. It is a wonderfully handsome, striking flower. Mr. Dykes (in England) produced a hybrid from the same combination, called I. fulvala, a red-purple. Mrs. Dean of California has given us a hybrid of fulva and hexagona, called purpurea. This is not very effective in the garden but has most artistic coloring. "Dull in the garden but quite ravishing in a brown jug." Still another hybrid from this group is Cacique from Mr. Berry, of California. It is described as "prune purple and blackish purple on the order of Dorothea K. Williamson." Those who have seen it in Mr. Berry's garden report it "a beauty."

This American group is said by Mr. Dykes to be the nearest relatives of the Spuria sub-section, of which I have several representatives. Some of them are new comers and some have existed in my garden for

(*Continued on page 500*)

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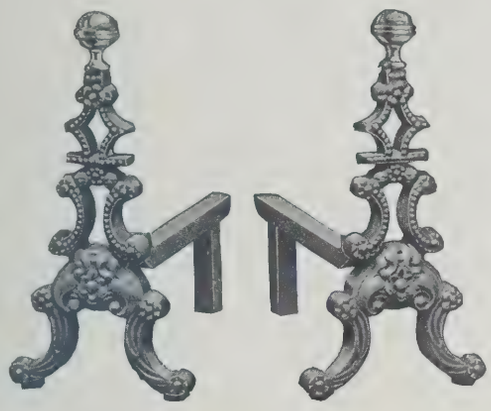

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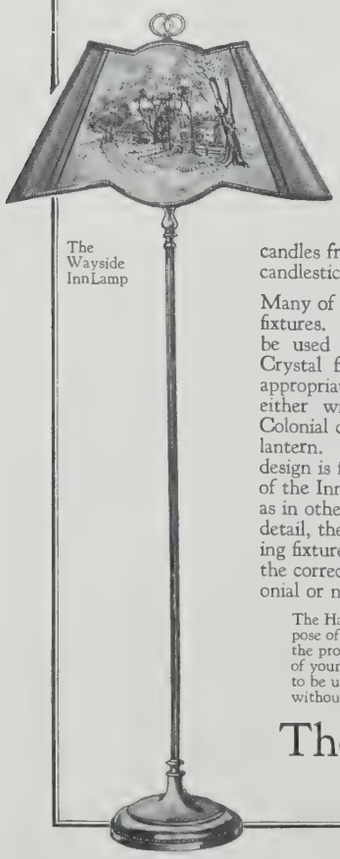

The Wayside Inn Lamp

THE pine knot furnished the first colonial settlers their light and lighting fixture at one and the same time, but they gave off plenty of smoke. Then the "Betty" and "Phoebe" lamps, small oval or triangular basins, with a projecting spout. First they burned tallow and grease, and then whale oil. They didn't smoke quite so much, but they were dirty and dingy. Then the cheerful candles came as a relief first rare and somewhat awkward, but following the Revolution, when the "hurricane" shade was developed, to protect candles from drafts, they became generally used, and new candlestick designs were extensively developed,

Many of these Colonial designs are to be had in modern fixtures. Polished brass is an appropriate finish and may be used particularly with the Flemish type of fixture. Crystal fixtures with glass arms fitted with candles are appropriate. The "oil font" design hanging by chains either with or without Astral chimney is an excellent Colonial design. The same can be said of the old "Salem" lantern. An interesting example of the use of Colonial design is found in the "Wayside Inn" lamp, with a picture of the Inn on the shade. As good taste in lighting fixtures as in other things is usually opposed to mass or extreme detail, the beautiful simplicity of the truly Colonial lighting fixture appeals universally as an appropriate design to the correctly appointed room whether it be entirely Colonial or not.

The Handel Co. has opened a service department for the purpose of supplying information to those who desire assistance in the proper placing and selection of lighting fixtures. Send plans of your house, or rooms, with information as to color schemes to be used, dimensions, etc., and we will outline our suggestions without charge or obligation on your part.

The Handel Company

MERIDEN, CONN.

(*Continued from page 498*)

a number of years without blooming. They require heavy feeding and moisture and take a long time to become established. The Spurias belong to the Apogon or Beardless section and come from southeastern Europe and southern Asia and from the coast of the Mediterranean. Some of the Spurias, as in the case of I. graminea, are dwarf, and some, as I. ochroleuca attain, under happy conditions, the height of five feet. One of the most noticeable peculiarities of these species is the growth of the branches, which rise perpendicularly from the main stem, the flowers appearing one above another giving the effect of springing directly from the main stem. Mrs. A. W. Tait, a Spuria hybrid, growing three feet exactly, delighted me this summer with several beautiful stalks of porcelain blue flowers which were worth waiting some time to see. The flowers are quite large and look like a glorified Spanish Iris. I am hoping that it is now established.

Iris aurea, a rich golden yellow, while not blooming, has developed such healthy strong looking foliage that it is reasonable to suppose that it also has found a spot to its liking. All the Spurias have stiff tapering leaves narrower than those of the familiar bearded group and growing from three to four feet high. The thick fibrous rhizomes somewhat resemble those of fulva and foliosa, though they have a more leathery substance. They soon lose their vitality if left out of the ground for any length of time. The best time to divide them being in early Autumn. The authorities have not yet decided whether it is a species or a hybrid, nor are they even positively convinced as to the country from which it originally sprang, although Kashmir is supposed to have been its native place.

Iris ochroleuca, "the gold banded Iris" is one of my new acquisitions. It has white flowers with a large yellow blotch on the falls. A fine form of this, well grown, is said to be one of the most stately of all Iris. There are several varieties of ochroleuca now advertised, with varying shades of yellow. Shelford Giant, a hybrid from Sir Michael Foster of aurea and ochroleuca, is creamy white with the yellow blotch, perhaps a glorified ochroleuca. This also is a newcomer to my garden. Iris puria alba, which is advertised by several growers, is said to be more interesting than beautiful. I do not know whether it is a hybrid or a species, as I cannot find any account of its origin.

Iris monnieri, included among the Spuria species and also sometimes spoken of as a hybrid, is a lemon yellow, this crossed with I. spuria (the type), a purple, has given various shades of blue hybrids, called monspur. Iris monspur Lord Wolseley has sat in my border for many years, he is very unresponsive, something is most decidedly wrong with his environment or else he has not a happy disposition. The little Iris graminea, growing only about nine inches in height and blooming in late May, belongs to this same Spuria subsection. I have two clumps of it on my rocks. Its violet-blue flowers are topped by the longer leaves and have a fragrance of ripe fruit.

Iris graminea comes from southern and central Europe, and its name was given to it on account of its foliage which is narrow and grasslike. It is said to grow "anywhere," but I have found that although it will survive "anywhere," it will not bloom if the location is too shady or if it is at all crowded or pressed upon.

Having lost I. gracillipes in the sun, the tiny I. arenaria when acquired was put in a sheltered spot where it languished for several years, fortunately surviving this unsuitable treatment. It requires full sun, also the tiny rootstock must be well covered with sandy soil, which I had neglected to do. With much uncertainty I dug up the mite and put it in the sunniest place in my garden. It began at once to take on new life and is increasing in size in a most encouraging manner. It needs a soil composed of sand and humus and the slender rhizome always covered with at least an inch of the sand. This little Iris comes from Hungary and though such a mite, growing only four inches in height, has two names. One, arenaria referring to its desired habitat (sand); and the other flavissima, on account of its color which is bright yellow. This Iris belongs to the Pogoniris section and has an orange beard.

Another new Iris of this year is Iris hoogiana, which to my great delight I found listed in several catalogues. Descriptions have made me covet it for some time. Mr. Dykes speaks of it as "the most aristocratic of all Iris." It belongs to the Regelia section of the Pogoniris and comes from Turkestan. One peculiarity of this group is the habit of the foliage in dying down after the blooming, the plant remaining in a dormant state through the summer months and until after the beginning of the year. The color of hoogiana shows in different plants, varying shades from gray-blue to purple. It has a conspicuous bright golden beard, not only on the falls but on the inside of the standards. It requires a well drained position, full sun and lime. It is hardy in the vicinity of New York City with a winter covering of leaves and does not require to be lifted or protected from showers, as Mr. Dykes recommends for the climate of England.

Iris ruthenica, a Beardless Iris from southeastern Europe and Asia is another stranger within my gates. I have it planted on the rocks near graminea. It is said to grow readily in any good garden soil, only requiring a certain amount of moisture during the growing season. This little Iris is not generally offered and I am hoping that it may prove to be "the blue loveliness" of which I have read.

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Fig. 172. A piece of ENGLISH LINEN *printed with pictures of* WASHINGTON *and* FRANKLIN, *with the* LIBERTY TREE *and other American* SYMBOLISMS

Fig. 64. A LEEDS QUEEN'S WARE TEAPOT *decorated in* CHINESE *colorings. On one side is a* PORTRAIT *of* ADMIRAL KEPPEL *who as captain accompanied* BRADDOCK *to* AMERICA; *on the other side appears his* FLAGSHIP

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OF THE
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There is no lack of good books on early American furniture, or silver, or architecture, but the American Wing now makes it possible to portray at one time the work of the housewright, the cabinetmaker, the silversmith, the etcher, the miniaturist, the clockmaker, the engraver. The Wing also makes it possible to show what the colonists imported from abroad in textiles, pottery, wall papers, prints, and other accessories with which they enriched their home life. The authors of this book have done that—and more.

To read this book and to absorb the astounding wealth of its illustrations is to go back and walk with those pioneer craftsmen and artists, to sit by the firesides of the Maryland planter or the New England parson or the Dutch burgher of New Amsterdam, and absorb for the first time the very atmosphere of the Colonies and the Early Republic. The authors have made very real the fact that America created arts of her own in those early days.

Then, too, the authors have been particularly fortunate in that every detail of design, construction, or decoration could be illustrated by the very best examples that remain to us. The Metropolitan Museum has never been satisfied with anything other than the best, and for practically every treasure that the American Wing now so magnificently shelters, other examples, less representative, less beautiful, less typical, have been rejected.

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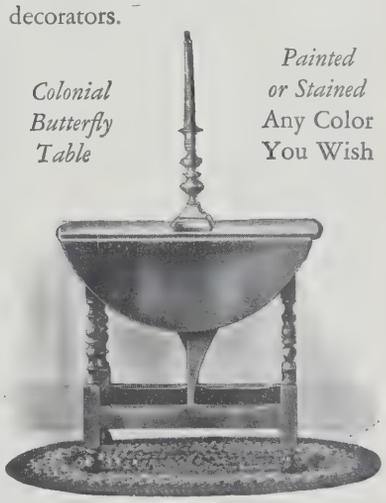

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Special Issue No. 6

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With records like these back of the plants, you surely will want some of this stock. This has been an exceedingly favorable growing season with us, and roots will be well matured and full of northern hardiness. For fall sales we believe we will have by far the largest stocks of the choicest of the world's most beautiful Peonies ever offered the public.

Some of the Choice Varieties

LeCygne, Solange. Lady Alex. Duff, Tourangelle, Longfellow, Luetta Pfeiffer, President Wilson, Mme. Jules Dessert, Kelway's Glorious, Therese, Frances Willard, Martha Bulloch, Jubilee, Judge Berry, Walter Faxon, Phoebe Cary, Kelway's Exquisite, Richard Carvel, Mary Brand, Sarah Bernhardt, and many others.

We are also offering this year, for fall 1927 delivery, those *new* Brand Peonies: **Mrs. A. M. Brand, Mrs. Romaine B. Ware, Myrtle Gentry, Hansina Brand, Mrs. Frank Beach, Ella Christianson, Blanche King, Hazel Kinney, Mrs. John M. Kleitsch, and Victory Chateau Thierry.** This is the finest collection of new seedling Peonies ever sent out at one time by any originator.

WE ISSUE TWO CATALOGS

Our 1926 Peony Price List the finest Price List ever issued on the Peony and Iris will be mailed free to you for the asking.

Our Peony Manual which we consider the most complete and up-to-date work ever written on the peony, a 64-page book that tells all one wants to know of the varieties, the culture, and the history of the peony, we are mailing free to those of our old customers who do not have it, and to all new intending purchasers this fall.

THE BRAND PEONY FARMS

Growers of Peonies for nearly 60 Years

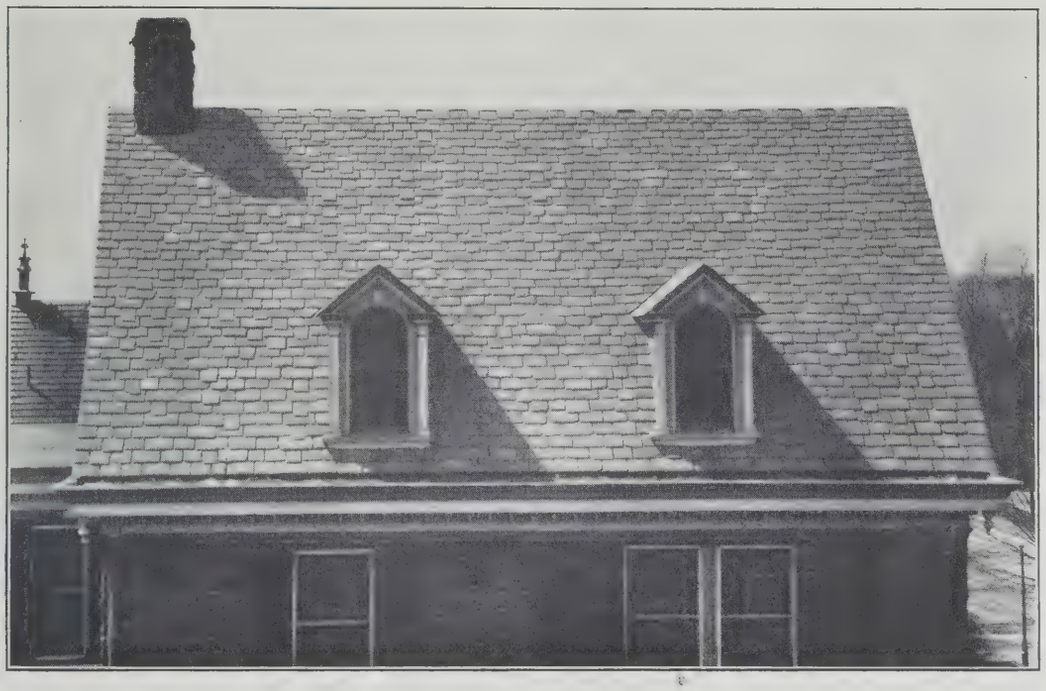
Box 23 — **Faribault, Minn.**

You Can *Now* Get Fire-Safe Roofs, and Artistic Ones as Well

"THEY ARE VERY GOOD LOOKING"

TAPERED

AMBLER ASBESTOS SHINGLES



ILLUSTRATING

GRADUATED ROOF OF TAPERED "English Thatch"

AMBLER ASBESTOS SHINGLES

Random widths 6″ to 14″ x 20″ long

COLORS—Autumn Brown, Tuscan Red, Pearl Grey, Permanent Green, Slate Black

FIREPROOF WEATHERPROOF EVERLASTING

For Prices, Contracts, etc., address

ASBESTOS
SHINGLE, SLATE & SHEATHING
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BRANCHES
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Pacific Coast Distributors: H. G. Sperry Co., San Francisco, Cal.; Seattle, Wash.; Salt Lake City, Utah; Globe, Arizona
J. A. Drummond, Los Angeles, Cal. Mountain States Machinery Company, Denver, Colorado
Berry Asbestos Company, Atlanta, Ga.

QUALITY IN ABUNDANCE

could be truthfully applied to the PEONIES on exhibit at the ANNUAL PEONY SHOW of the MASSACHUSETTS HORTICULTURAL SOCIETY, Boston, Saturday and Sunday, June 26th and 27th.

MARVELOUS CREATIONS OF CALOT— CROUSSE— DESSERT— KELWAY— LEMOINE—and other old world growers strove for supremacy with ENTRANCING WHITES—WONDERFUL PINKS and MAGNIFICENT REDS ORIGINATED BY HOLLIS—RICHARDSON—SHAYLOR—THURLOW and other American growers of note.

From this WONDERFUL ARRAY (conceded by many well-known authorities as ONE OF THE BEST EVER STAGED IN BOSTON) the following awards were made to the Cherry Hill Nurseries:

1st SILVER MEDAL for BEST DISPLAY of PEONIES arranged for effect.
1st PRESIDENT'S CUP for DISPLAY of PEONIES.
1st SILVER MEDAL on SEEDLING No. 59 } for BEST
2nd BRONZE MEDAL on SEEDLING No. 78 }
NEW DOUBLE PEONY not before exhibited.
1st BEST COLLECTION of HERBACEOUS PEONIES not more than 100 varieties, one of each.
1st BEST COLLECTION OF DOUBLE PEONIES, 1 flower of each rating at 8.5 and over.
1st BEST 20 NAMED VARIETIES, double, one flower of each.
1st BEST 6 NAMED DOUBLE WHITE varieties one flower of each.
1st BEST 6 NAMED DOUBLE RED OR CRIMSON varieties, one flower of each.
1st BEST 12 NAMED SINGLE VARIETIES, one flower of each.
1st BEST 6 NAMED DOUBLE PINK varieties, one flower of each.
2nd BEST 6 NAMED DOUBLE LIGHT PINK varieties, one flower of each.

Then at the NORTH SHORE HORTICULTURAL SOCIETY, June 29-30 we were awarded a GOLD MEDAL for EXCELLENCE IN DISPLAY OF PEONIES.

At THE ANNUAL PEONY EXHIBIT of the NEW BEDFORD HORTICULTURAL SOCIETY June 23-24 we received a SILVER MEDAL for MERITORIOUS DISPLAY OF PEONIES.

ALL THIS QUALITY may be yours by purchasing peonies of the well known CHERRY HILL STRAIN FROM THE

Catalog
not open Sundays

CHERRY HILL NURSERIES
(T. C. Thurlow's Sons, Inc.)

West Newbury, Mass.

Keep Your Lawns Green in August and September

THE WATERFAN

THE hot, dry, parching days of August and September need not be dreaded if you are properly equipped with PORTABLE IRRIGATION.

A small outlay for the proper sprinklers will insure you against August and September droughts.

THE WATERFAN and T-26 TURBO
are
AUTOMATIC OSCILLATING SPRINKLERS
Both have enclosed protected motors with gears running in oil

The automatic, oscillating action of these machines distributes the water in a rain-like gentle shower, the WATERFANS covering a RECTANGULAR area 25 x 45 ft. and the T-26 TURBO a circular area 80 ft. in diameter.

They are trouble proof and durable, requiring no attention except to place them and turn on the water.

Ideal System for WIDE Lawns and Shrubbery—T-26 TURBO

Model	Area Covered	Gal. per Min.	Water Pressure at Outlet	Price
No. 6 Waterfan	15x45 ft.	3½	25 lbs.	$15.00
No. 8 Waterfan	25x45 ft.	5	30 lbs.	$18.00
T-26Turbo	80' Dia.	6-10	45 lbs.	$22.50

Transportation charges prepaid on cash orders

Service and satisfaction guaranteed

THE T-26 TURBO
(A NEW MODEL)

CAMPBELL IRRIGATION COMPANY
Malcolm C. Ludlam, *Prop.* **Woodbury, New Jersey**

An Unrivaled Peony Offer

To give our friends a chance to purchase some better Peonies we make the following offer: All 8 choice varieties, some very recently introduced, for $5. This is a very low price. See our free catalogue for description.

Octave Demay	$1.00	*Avalanche*	$1.00
President Roosevelt	1.00	*Festiva Maxima*	.75
Princess Beatrice	1.00	*Mons. Barrall*	1.00
Prince of Darkness	1.50	*Gen. Custer*	.75

The set of eight for - - **$5.00**
(You pay parcel post or express charges)

We have one of the largest stocks of Peonies in the U. S. We won 1st Prize at Des Moines, Ia., American Peony Show, on our display of Officinalis Varieties and Hybrid Peonies. Our large complete Bargain list and descriptive Catalogue sent free to all.

Some Tempting $ Bargains $

Your choice of any of the following bulbs at greatly reduced prices:

8 Peonies all different, labeled, strong, 3 to 5 eye division, $2.00.
10 Iris, all different, labeled, $1.00.
50 Crocus, all mixed, $1.00.
10 Hyacinths, mixed, $1.00.
3 Lilium Auratum, gold banded lily, $1.00
2 Lilium Regale, new white trumpet, $1.00
10 Lilium Superbum, our wild meadow Lily, $1.00.
6 Lilium Longiflorum, the early lily, $1.00.
10 Lily of Valley, new large Fontius Giant, $1.00.
10 Trilium or Wood Lily, mixed. Fine for shaded places, $1.00.

Send cash, money order, or check with order. We do not send C. O. D. and if you want them sent parcel post send postage to cover. Most lots of 25 bulbs will weigh about 3 pounds, the peonies about 8 to 10 pounds for 8 roots.

If your order amounts to $5.00, we will give you 1 extra Peony, the American Beauty, free.

Babcock Peony Gardens, Jamestown, N. Y.

The GARDEN AND HOME BUILDER. August, 1926. Vol. XLIII. No. 6. Published monthly by Doubleday, Page & Co., Garden City, N. Y. Subscription price, $3.00 a year. Entered as second class matter at Garden City, N. Y., under the Act of Congress, March 3, 1879.

BURPEE'S TULIPS

JUST beautiful! How vaguely these words express the joy that steals into our hearts at the sight of these glorious Tulips. A careful selection of blending colors, which complement one another, gives to the assortment an artistic and finished touch.

The collections contain these five varieties:

Inglescomb Pink—Soft rosy pink.
Inglescomb Yellow—Glistening golden yellow.
Farncombe Sanders—Vivid cherry-scarlet.
Orange King—Brilliant orange.
Bleu Aimable—Bright violet-purple.

No. 9732	Six Bulbs each	(30 bulbs)	$ 1.85
No. 9733	Twelve Bulbs each	(60 bulbs)	3.25
No. 9734	Twenty-five Bulbs each	(125 bulbs)	6.25
No. 9735	Fifty Bulbs each	(250 bulbs)	12.00
No. 9736	One hundred Bulbs each	(500 bulbs)	23.50

Order your Tulips now for planting this Fall.

W. ATLEE BURPEE CO.
Seed and Bulb Growers **Philadelphia**

Laurel Is Always Lovely!

GREAT umbels of charming pinkish white flowers adorn the plants during June. During the balance of the year, the glossy, deep green foliage is uniformly attractive. The combination makes our native Laurels one of the most highly prized shrubs for the home grounds. I offer specimen plants in various sizes, at moderate prices.

Lily-of-the-Valley Shrubs for Foundation Planting

The extremely graceful Andromeda is an ideal companion shrub to both Laurels and Rhododendron. Blooms during April, foliage evergreen, new growth of pleasing bronze shades. All these evergreen shrubs are successfully transplanted during August-September.

You will find both Laurel and Andromeda fully described on pages 28-29 of my free catalog, a copy of which I will gladly mail upon request.

EDWARD GILLETT
Fern and Flower Farm
3 Main St., Southwick, Mass.

Blue Ribbon Winners
at Their Best!

IT WAS A SIGHT NEVER TO BE FORGOTTEN! The hundreds of choice Darwin, Breeder and Cottage Tulips made a truly imposing showing in Tulipdom's trial gardens, a very small part of which is shown above. Here, too, is one of the Zandbergen Brothers, hiding behind that marvelous new Tulip, Silver Wing, easily the best white Darwin in cultivation to date.

We Can Still Accept Import Orders

The last orders to reach us around August first will have to be cabled, at additional expense but—

So long as it assures our customers the choicest bulb product which Holland affords, we are glad to do our part. For those who do not have our catalog, we offer the following

Selection of Prize Winners
10 Choice Kinds, 15 Bulbs each for only $10.00

Bought separately, the 150 bulbs would cost $12.00. One-half the collection (75 bulbs all told) will be delivered for $5.50.

Here Are The Varieties:

John Ruskin—Salmon-rose, edged yellow. Cottage Tulip. Doz. 90c; 100 $6.00.

Louis XIV—Magnificent bronze-purple Breeder, with golden margins. Doz. $2.60; 100 $20.00.

Dream—Pale heliotrope Darwin. Doz. 65c; 100 $4.50.

Pride of Haarlem—Rose-carmine Darwin. Doz. 60c; 100 $4.00.

Princess Elizabeth—Deep pink Darwin. Doz. $1.15; 100 $8.00.

Clara Butt—Finest salmon-pink Darwin. Doz. 55c; 100 $3.50.

La Merveille—Orange-scarlet Cottage. Doz. 60c; 100 $4.00.

Faust—Dark satiny purple Darwin. Doz. $1.00; 100 $7.00.

Bronze Queen—Soft buff Breeder. Doz. 70c; 100 $5.00.

Mrs. Moon—Golden Yellow Cottage. Doz. 70c; 100 $5.00.

Orders that reach us by August first will be handled but once—in Holland. Those reaching us later will be filled by us here at Oyster Bay during September–October.

"Bulbs in a Class All Their Own"

Zandbergen Bulbs are sold with the understanding that they bloom true-to-name or money will be refunded. This applies to all Tulips, Hyacinths, Crocuses and other Dutch Bulbs as well as to our American Grown Daffodils. Please let our free catalog acquaint you with all we grow. When writing, please mention G. & H. B.

ZANDBERGEN BROS., *"Tulipdom"*
Oyster Bay, Long Island, New York
Nurseries at Valkenburg, near Leiden, Holland

When to Plant?

Now! August and September are the two months in which Oriental Poppies and Pyrethrums should be transplanted.

Oriental Poppies

Barbaric in their splendor of rich and beautiful colors, they easily dominate the hardy border during late May and early June. We offer the best pink variety, for general planting.

Papaver Orientale Mrs. Perry—the best Pink Poppy grown—3 for $1.00; dozen, $3.00; 100 for $20.

Orientale Red—3 for $1.00; dozen $3.00; 100 for $20.

Painted Daisies

The popular name of the Pyrethrums (also called Persian Daisies). As cut flowers they are invaluable. In form they vary from single to very double as shown below. Their colors range from white through all shades of pink to red.

All Colors Mixed, extra strong, field grown plants, 3 for $1.00; doz. $3.00; 100 for $20.

Catalogue FREE

It points the way to gardens of perennial loveliness. Offers a splendid line of the finest hardy flowers in unequalled quality. It also describes the choicest in Tulips, Daffodils, and other so-called Dutch Bulbs. New fall issue ready now. Write for it please.

The Wayside Gardens Co.

Largest Growers of Hardy Plants in America

Mentor - - Ohio

E. H. SCHULTZ, Pres.
J. J. GRULLEMANS, Sec., Treas.

Peonies— For Your First Planting

We call this our "Backbone" Collection because each variety will always have a place in every well-selected Peony planting. It is a permanent investment in Peony satisfaction.

Each is an Approved Variety. The roots will be strong divisions from mature stock of Approved Quality, especially grown to give quick-blooming results.

This "Backbone" Collection, $15.00

The 12 Best Peonies at Reasonable Prices

JAMES KELWAY. Fine, flesh white, early... $1.50
MARIE JACQUIN. The waterlily white, midseason. 1.50
MME. EMILE LEMOINE. A wonderful white, midseason. 1.50
BARONESS SCHROEDER. Beautiful rose-white, late. 1.50
OCTAVIE DEMAY. Dwarf light pink, early. 1.00
VENUS. Finest shell pink, midseason. 1.50
REINE HORTENSE. Very large hydrangea-pink, midseason. 2.00
MME. EMILE GALLE. Delicate flesh-pink, late midseason. 1.00
CLAIRE DUBOIS. Very large violet-rose, late. 1.00
SARAH BERNHARDT. A divine pink, late midseason. 2.50
KARL ROSENFIELD. King of the reds, mid-season. 2.00
ADOLPHE ROUSSEAU. Gorgeous dark red, early midseason. 1.50

All 12 Approved Varieties $15.00

Send your order now for this best-of-all Peony Collection to be shipped by express for early September planting. Or, you may select from the above at prices quoted.

FREE Catalog of Approved Peonies

Our Approved Peony List represents our selection of the tried and true "aristocrats" of the peony world, based on personal experience in growing hundreds of varieties

Every root from our plantings must also be of Approved Quality. Stocks are selected both for vigor and quality of bloom, and are grown to maturity before being dug.

Write today, before you forget, for our 1926 Approved Peony Catalog. It also contains comprehensive lists of fine Irises, Gladioli, Tulips, Lilies and Phloxes.

Visitors always welcome at our Farms, one mile west of Baldwinsville on the Rochester-Syracuse highway.

INDIAN SPRING FARMS, Inc.

Harry F. Little, Vice Pres. and Gen. Mgr.

Box G Baldwinsville New York

Part view of one of our Peony Fields Luetta Pfeiffer in background

Covering Color *and Season*

To select from among hundreds such Peonies as are of outstanding character, is not an easy task, even for the initiated. And so we give below 4 color divisions, recommending 5 varieties in each that give a long season of bloom. The entire collection holds a score of topnotchers which are hard to beat at any price.

Five Splendid White Peonies

Albatre—white with rose tints $1.00
Baroness Schroder—flesh white 1.50
Mons. Dupont—late white . . 1.00
Francis Willard—creamy white 3.00
Suzan B. Anthony — blush white 1.00

The set of 5 for $6.00

Five Gorgeous Crimson Peonies

Ben Franklin—true crimson .$1.00
Chas. McKellip—rich deep red 2.00
Karl Rosenfield—deep wine red 1.50
H. F. Reddick—deep red . . 1.00
Mons. M. Cahuzac — deepest color 3.00

The Set of 5 for $7.50

Five Lovely Pink Peonies

Chestine Gowdy—shell pink .$1.50
Eugenie Verdier—light pink . 1.00
Fannie Crosby—pink and yellow 2.00
Harriet Earnsley—soft pink . 1.00
Sarah Bernhardt—apple blossom pink 2.00

The set of 5 for $6.00

Five Charming Rose Peonies

Charles Verdier—deep rose. .$1.00
Felix Crousse—rose-red . . . 1.00
Longfellow—bright cherry red . 3.50
Souv. de L'Exposition — late rose 75
Wm. Penn—true rose 1.00

The set of 5 for $6.00

Your Order placed *before* Sept. 15th brings beautiful Peony FREE!

To every order for $25.00 worth of Peonies selected either from above or from our catalog we will add one fine root of our beautiful Luetta Pfeiffer, a magnificent pink, shaded white, with our compliments. Since the entire four sets of twenty varieties, amount to $25.50, in collection prices, why not just order this score of winners?

Catalog Free on Request

The Pfeiffer Nursery

Winona - - Minn.

Arrest the Flight of Father Time with the help of *POT-GROWN* Strawberry Plants

The Lovett Type *heavily rooted,* that will bear Great Crops of

Fine, Big Berries!

Catalog No. 118 tells the whole story.

Please ask for your Free Copy.

LOVETT'S NURSERY
Box 125
Little Silver - New Jersey

Over the Wide World Farr's Irises and Peonies Bloom Freely

From early May to late June the Iris fields at Weiser Park (the new Farr location) were shimmering in soft, iridescent colors. Here and there a tall growing variety flashed a long line of color down the field, serving to emphasize the lavender and violet, the bronze and the rose of its companions.

Such loveliness as this can readily be transplanted to home gardens great or small. *August is the best time in the year to move Irises.* Our collection includes the Famous Farr Seedlings together with the world's best introductions, none of which are rated less than 7 points by the A. I. S.

All these superb Irises are fully described in our booklet "Better Plants by Farr." If you do not have a copy please write us and one will be mailed promptly.

Twenty-four Farr Irises for $10.50 Postpaid

Anna Farr
Cecile Minturn
Georgia
Hiawatha
Inca
Japanesque
Juniata
Lewis Trowbridge
Mary Garden
Massasoit
Minnehaha
Montezuma
Mt. Penn
Navajo
Pocahontas
Powhatan
Quaker Lady
Red Cloud
Seagull
Seminole
Shrewsbury
Swatara
Windham
Wyomissing

For description see our catalogue

Peony-planting Time is at Hand

Late August and September is planting time if you want blooms next June. Peonies are not included in our general catalogue, but are described in a special folder which will be sent on request.

FARR NURSERY CO.
104 Garfield Ave. Wyomissing, Penna.

To give American gardens only the best varieties has been, and is today, our chief ambition. But our friends in America tell their friends abroad, so that Better Plants by Farr are growing and blooming in foreign lands as well as at home.

Farr's Peonies are as much at home in China as in America. This shows the garden of Mr. Charles Rayner, Shanghai, China, as it appeared on July 3, 1924

Opportunity!

Seldom repeats itself, but if by any chance you failed to buy Schling Quality Bulbs at our import prices of May and June, you will be glad to learn that we still can offer a limited number of the collections listed below *during the months of July and August only,* at prices far below those that will obtain later.

(NOTE—these are all top size, first quality bulbs in collections of named varieties—not mixed. Plant each variety separately and learn to appreciate its individual charm and beauty.)

(Collections in units of 100 only—our selection of varieties.)

100 Single Early Tulips in 10 named varieties	$6.00
100 Double Early Tulips in 10 named varieties	7.00
***100 Darwin Tulips** in 10 named varieties. Immense flowers on stems 2½ feet tall.	5.00
***100 Cottage Tulips** in 10 named varieties. The Tulips of Grandmother's garden	5:00
***100 Breeder or Art Tulips** in 5 rare named varieties. In form like Darwins, wonderful pastel shades	7.50
100 Grape Hyacinths, Heavenly Blue—Delightful in the Border or Rockery	4.00
100 Daffodils for naturalizing	8.00
100 Glory of the Snow, blue (Chionodoxa). Loveliest and earliest Spring flower for naturalizing	3.75
***100 Poet's Narcissi**	10.00
100 Crocus, in 4 colors	3.50
Total value	$59.75

Special Offer The above collection of 1000 choice bulbs . **$50.00**

*Bloom in May and June. All the rest bloom in April and May—the crocus earliest of all, as soon as the snow melts.

Two Very Special Bulb Offers

100 DARWIN TULIPS . . for only . . $3.50

Choicest, first-class bulbs, sure to bloom. Special Mixture made up especially for us from ten of the finest named varieties—not at all the ordinary field-grown mixture usually sold.

A $6 value for only $3.50, or if you prefer, 50 bulbs for $2.35

The Heralds of Spring

200 of these lovely Spring beauties 25 each of the following 8 named varieties for **$6.50**

Snowdrops (single): Glory of the Snow (Blue); Heavenly Blue Grape Hyacinths. Blue Squills (Scilla sibrica); Blue Bells (Scilla campanulata); White Blue Bells, Wood Hyacinths (Scilla Nutans); Winter Aconites.

Schling's Bulbs

Max Schling Seedsmen, Inc.
Madison Ave. at 58th St., New York City

Posies for Places

Where Nothing Else Will Grow!

On every estate or in the suburbs there are spots where the gardener has difficulty in growing anything. It may be too shady or the hedge or trees take all the moisture and nourishment, or it may be for many other reasons. For just such spots I conscientiously advocate extensive plantings of the lovely

Scilla Campanulata or *Scotch Blue Bells*

Above, they may be seen growing next to a dense Privet hedge on my grounds. Here it thrives luxuriously. Alongside is shown a very small part of a large field holding millions. By the time you read this, the bulbs will be ready for shipment. Simply lift soil or sod and insert the bulbs. Since they naturalize quite readily, you will enjoy their ever-increasing companionship year after year. Being inexpensive, you may plant them in quantities at low cost.

Scilla Campanulata	*Doz.*	*100*	*1000*
Blue	$ .50	$4.00	$35.00
Pink	.75	5.00	45.00
White	.75	5.00	45.00

Muscari or *Grape Hyacinths*

Like the Scotch Blue Bells, the charming Grape Hyacinths, as illustrated to right, will grow in spots that are the despair of the gardener. Sun or shade, poor soil or rich, next to trees or among the rocks—they revel in equal contentment most anywhere and bear their lovely baby spikes (pictures about ⅔ natural size) during late April and May. Splendid in clumps of 25 or more.

Muscari	*Doz.*	*100*	*1000*
Heavenly Blue	$ .35	$2.50	$20.00
White	.60	5.00	30.00
Conicum	.50	4.00	25.00

Please do not ask me to fill orders for either Scillas or Muscaris calling for less than one dozen of a variety; 50 at the 100 rate; 250 at the 1000 rate. I prepay postage on all orders over $2.00.

Free Booklet—Will acquaint you with hundreds of other kinds of bulbs I grow. Mine is the largest collection and I grow the greatest quantities of high-class American Daffodil Bulbs on the Pacific Coast. I also specialize in Iris and Lilies. Please ask for booklet right away and mention Garden & Home Builder

GEORGE LAWLER *Bulb Specialist* GARDENVILLE, TACOMA, WASHINGTON

One Dollar Invested

in

Melrosine

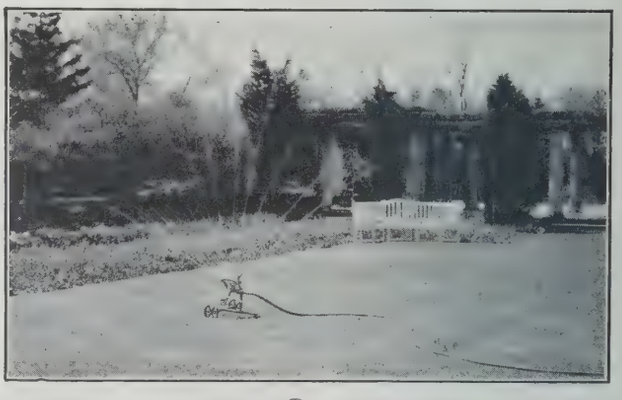
is the safest insurance against Rosebugs; it will protect a dozen rose bushes all season, besides making sure that next year's Rosebug invasion will be smaller.

Don't Raise Roses *To Feed Bugs!*

Roses take months to grow, but may be ruined *over night* by Rosebugs, unless guarded vigilantly. And watchfulness reinforced by the diligent use of MELROSINE pays you big dividends of finer roses.

If perchance your dealer does not carry MELROSINE, we will supply direct. Instructive leaflet for the asking.

GARDEN CHEMICAL COMPANY
Park Avenue & 146th Street New York, N. Y.



WHITESHOWERS
RAINBOW
SPRINKLER

A most unusal sprinkler that will give dry weather a real battle—and win. ¶For lawns, flowers, shrubbery, vegetables—everything. ¶This Rainbow Automatic Sprinkler is "right as rain"—waters evenly, thoroughly with no flooding or missing. ¶Waters a *square*—as much as 60 by 60 feet—3600 sq. ft. at a time—or as small an area as you want by turning down tap. Catches the corners. ¶It oscillates—rocks back and forth. Makes a fan shaped spray. Beautiful in operation. Practical. Durable. Does the work of 3 or 4 ordinary slovenly circle sprinklers. Takes the place of more cumbersome apparatus. Weighs only 25 lbs. Mounted on wheels. Easy to move. Attaches to hose. ¶Saves time, labor, water. ¶For Estates, Golf and Country Clubs, Parks, Hospitals, Institutions, and average lawns or gardens. ¶Write for folder. Or send order. Price $40.00 f.o.b. Detroit. Finest sprinkler built. Money back guarantee. ¶We also make other types of irrigation to meet any watering requirement.

WHITESHOWERS
6458 Dubois Street Detroit, Michigan

Symphonies in Color and Fragrance

A more charming sight than a well developed Peony plant in full bloom is hard to imagine. Each gracefully nodding flower seems lovelier than the rest and while Peonies bloom their beauty easily dominates the entire garden.

Here at Springfield we grow them by the millions. Millions of plants bearing more millions of flowers greeted the writer this past week (June 10-11) as he surveyed one of the most magnificent panoramas imaginable. Like a huge "crazy quilt," patches of pink, red, white, and myriads of other tints intermingling spread the eighty odd acres of the loveliest hardy perennial that grows. Viewed from surrounding hills, the sight was one never to be forgotten.

You are cordially invited to let "The Glory Bloom we call the Peony" visit you

It's a book well worth getting and having for reference. Chapters on how to enjoy Peonies for a whole month, how to judge the comparative merit of varieties, who is who among the best and the good points in favor of the rest—these are just a few of the topics covered in this, perhaps the most exhaustive treatise devoted to Peonies exclusively. Your copy is waiting for your call. Please ask for it and mention Garden and Home Builder.

The Connoisseur Collection

These Peonies are just a little different from the ordinary kinds. This is a very exclusive set.

Auroro—Semi-rose type; late. Extra large, flat loose bloom. Color lilac-white with collar of milk white flecked with crimson, guards prominently flecked carmine. $1.50.

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Monsieur Martin Cahuzac—Semi-rose type; midseason. Large, full, massive, well formed flowers; a perfect solid ball of deep maroon with garnet hues and brilliant black luster. $3.00.

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Gigantea—Rose type; early midseason. A most exquisite shade of bright pink or lilac-rose tipped with silvery white. $1.00.

Madame Emile Galle—Rose type; late midseason. Color delicate seashell pink with touches of heliotrope and lavender. $1.00.

Jeannette Oppliger—Bomb type; midseason. Salmon-pink with deep shading of rose at base of petals. $1.00.

Tourangelle—Rose type; late midseason. Color, pearly white overlaid with delicate salmon and with shades of La France rose. $5.00.

Eugene Verdier—Rose type; late. Very large compact double flowers. Color delicate Hydrangea-pink, outer guard petals lilac-white. $2.00.

Florence Nightingale—Rose type; late. A majestic white of peerless beauty. $1.00.

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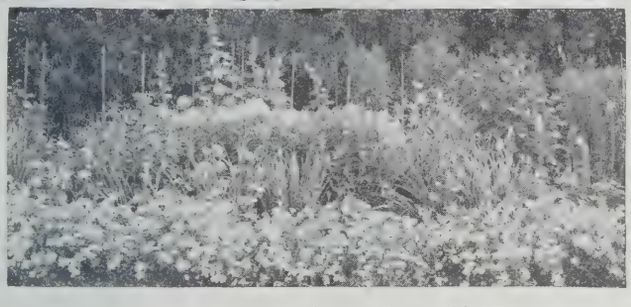

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Her Majesty—S. rose-pink, F. bright crimson
Juniata—S. and F. clear blue
L. A. Williamson—S. campanula violet, F. royal purple
Lohengrin—S. mauve, F. chinese violet
Monsignor—S. violet, F. purple-crimson
Perfections—S. light blue, F. violet-black
Prosper Laugier—S. light cinnamon, F. violet-carmine
Quaker Lady—S. tawny lavender, F. ageratum-blue
W. F. Christman—S. white, F. purple

If you should find one or two extra in the package, do not return them, they are yours.

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GARDEN & HOME BUILDER

AUGUST, 1926 — Volume XLIII, No. 6

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September—The Fall Gardeniug Manual

More and more are gardeners coming to appreciate the advantages of fall planting, and in Leonard Barron's *What to Plant in the Fall and Why* this very important question is discussed and many practical suggestions given. *Why We Plant Roses in the Fall* by J. Horace McFarland, Editor of the American Rose Annual and an authority on the subject, explains why fall planting of Roses is desirable in all sections of the country in which the Roses can be had dormant in time to plant them, so that there may be a little root action begun in the fall before the ground freezes. And, of course, there is the Peony, for which the fall is really the only time to plant. The outstanding features of the *American Peony Society's Exhibition* at Fort Wayne, Indiana, are commented upon, and, incidentally, this gives valuable side light on variety behavior. Also other things of equal moment and timeliness, all leading to the fall forestalling of the usual spring frenzy.

As to the house material—*Color in Furniture* by Ellen D. Wangner presents in authoritative fashion the case for painted furniture—its charm of design, diversified patterns, practical use, and appropriateness in living room, dining room, and bedroom. Owen Wilson's *Our Colonial Bequest* is an illuminating discourse on the origin of Colonial architecture, its development and variations, and the importance of the old houses whose lines have taken firm grip on our affections and tend more and more to become the basis of American domestic architecture. Those of us who have been apt to overlook the importance and significance of true American primitive art will find a fascinating story in Amy Richards Colton's *Red Man's Contribution to Household Art:* the Indians of the Southwest and those of Mexico, Yucatan and South America each developed quite a distinct form of artistic expression, as found in their handicrafts, which by reason of their genuineness and simplicity really have a place in certain types of the present day home, possibly the Spanish dwelling in particular. The labor and strike conditions have focussed everyone's attention on the problems of *Domestic Heating* whether in the old-fashioned manners of coal and wood or the recently popularized oil burner. Garden & Home Builder is fortunate in beginning next month the publication of several articles of unusual merit on all phases of the heating problem by recognized authorities.

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Dining Room furniture must serve two masters. It must be sufficiently informal for the family gathering, yet possess a more dignified mien for the formal dinner. The happy combination of these essential qualities is to be found in a suite such as that pictured above. It is but one of the many beautiful sets now available at moderate prices.

W. & J. SLOANE

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GARDEN & HOME BUILDER

Vol. XLIII, No. 6 *AUGUST, 1926*

News and Comment

THE International Conference on the cause of sterility in fruits and flowers with a view to improving the results will be held under the auspices of the Horticultural Society of New York August 12th, 13th, and 14th; the sessions being held in rotation at Columbia University, Boyce Thompson Institute (Yonkers), the New York Botanical Garden, and the Brooklyn Botanic Garden. In its ultimate service to the interests of the garden this event is likely to have as far-reaching influence as the International Conference on Plant Breeding held some years ago that was inspired by the same organization. It thus sets a splendid example of progress for similar societies to follow. The complete program of the three days' proceedings is too lengthy to present here but will gladly be sent by Dr. A. B. Stout, Secretary to the Conference, Botanic Garden, Bronx Park, New York, N. Y.

THE ROTARY MILE

COUNTRY roads seldom are cared for—like Topsy they just grow up. The Rotary Club of Ithaca, N. Y., conceived the idea of road beautification. A committee was appointed, one of which is Prof. Ralph W. Curtis of Cornell University, a well known plantsman and landscape architect. This Committee has been authorized to beautify one mile of road. Planting city streets is one thing but to plant country roadsides in keeping with the surroundings is an entirely different problem as Professor Curtis and his associates realize. We shall be interested in the outcome of this experiment. In the meantime we hope Rotary and other luncheon clubs in other cities will follow the idea, but we trust they too will employ a first class landscape architect to advise them.

AMERICAN GLADIOLUS SOCIETY CONVENTION AND EXHIBITION

THE American Gladiolus Society holds its 17th Annual Convention and Exhibition at Building No. 5, Edgerton Park, Rochester, N. Y., August 11th, 12th, and 13th. This will be the largest display of Gladiolus ever staged in this country, for while the 1925 Exhibition had been the largest there have been more than 6,000 sq. ft. of floor space added to the same hall that was used last year, which will be filled with tables for display purposes.

The Prize Schedule contains nearly two hundred classes. Heretofore the amateurs who would bring their flowers to this Exhibition were obliged to bring three spikes of any one variety, which was rather difficult for many of them to fill. Realizing this condition, the Committee has arranged fifteen classes for the amateurs alone which call for but one spike of certain colors. There are also more classes for decorative work in order to stimulate the showing of a greater number of decorative pieces in which the Gladiolus will predominate.

Nearly all the large growers will have their best creations on exhibition; Mr. A. E. Kunderd will ship a full carload of flowers.

About all the growers living at a greater distance than 500 miles of Rochester have shipped to Rochester a quantity of bulbs of many different varieties to have grown in what is known as the A. G. S. Exhibition Gardens. These flowers will come into bloom and be cut for the Exhibition in order that the visitors may see what these breeders living at a great distance are producing at the present time.

The Society has been granted a 25 per cent. reduction in railroad fares on the certificate plan by all the railroads or transportation lines of the country.

The Business Meeting of the Society will be held Wednesday evening, August 11th, at 7:30 P. M. in the Assembly Hall on the Exhibition Grounds in Edgerton Park.

A FORMALIST TO THE FRONT

THE old yet ever new bone of contention between the formalists and the naturalists crops up in a letter received from a champion of formalism as a result of the remarks made on this page in the June issue. The feeling of GARDEN & HOME BUILDER is that there is neither all right nor all wrong on either side. Conceivably there are places where either style might be adopted just as there are surely situations where the one style is called for almost to the exclusion of the other. Let us look for the thing that fits the situation and condition; but when it comes to partisanship for either method exclusively we cry "a plague on both your houses." In our grounds at Garden City where the fundamental scheme was laid out on lines of geometric formality there are nooks and corners in which the naturalistic manner is developed. Visitors are welcome to inspect and study. The letter follows:

"In the editorial of the June Number of GARDEN AND HOME BUILDER some disparaging remarks were made about the garden as an out-of-door sitting-room and the use of a garden axis and of adhering to a plan and a color scheme. As a lover and admirer of formal gardens, I must champion them and answer the implied challenge. Though I have a personal liking for formal gardens, I realize that there is no such thing as an ugly type of garden. In every situation, does not the type of garden look best, which is best suited to the natural scenery surrounding it, the house it adjoins and the purpose it is to serve? I realize that a formal garden would look absurd and out of place on rough rocky hillsides, near mountain camps or amidst wild scenery. But surely in a city, or on a level country side or leading to a stately mansion the editor would not advise a wild garden? If the gardener is primarily interested in plants by all means let him have a miniature botanical garden but why can't this be artistically arranged as well? Must such a garden necessarily be a formless planless conglomeration? If he is unable to appreciate the beauty of a well-balanced harmonious design need he belittle the art he cannot understand? If he has no talent for creating a beautiful garden let him ask someone to help him, and living with a work of art will educate his taste. My own experience and observation have shown me that beginners are likely to have naturalistic gardens with all the flowers in the catalogue and that they gradually come to more formal gardens with fewer varieties of plants and larger masses of these.

"Many creators of gardens as well as houses show poverty of imagination and are stultified by the formality of the design. But in some of the most formal and classical palaces we find a marvelous richness of detail and ornament. The same is true in music where some musicians cannot compose in sonata form and give us a formless repetition of the harsh sounds. It does not follow that Bach and Beethoven were not able to compose an endless variety of melodies and harmonies while confining themselves to this form. If every gardener is not an artist to begin with let him not look down upon those that are but on the contrary let him aspire to appreciate and understand the finest and most beautiful gardens. Being limited in our capacities, is the best of reasons for trying to improve them. Gardeners are advised to follow the design of a room in laying out their gardens because most Americans are too close to the frontier days to understand the need for formality out of doors, but they know and are used to a formal arrangement indoors. Rooms are not all rectangular as the article implies— they are round, oval and square too.

"The small gardens in the Old World, except a few rock gardens (a modern invention) are all formal. The accumulated experience of the race has slowly led to this form as the most satisfactory. We are ourselves formal and symmetrical in build. Our human structures balance all the way with the nose as a more or less prominent axis down the centre of our faces.

"Undoubtedly many gardeners have been limited in their vision about color schemes. But most of us do not have the faintest glimmering of the charming effects we could achieve if we really understood this subject. The French gardeners can teach us a great deal of wisdom along these lines.

"Above all should we not be open minded and ready to improve and learn and if we favor a particular style or form ought we to condemn the others? If William Robinson, E. A. Bowles, Miss Jekyll, Mrs. King and Mrs. Wilder do not admire formal gardening there are Miss Nicholls, Mr. Trigg, Mr. Forestier, Docteur Carvallo, Edith Wharton, Reginald Bloomfield and Mr. C. A. Platt who do.

HELEN M. FOX.

THE SUN-DIAL IN THREE DIMENSIONS

"There is a sun-dial there, to mark the hours
Where time is not, where time has grown so old
It does not move now"

John Presland

I. As a centerpiece in a flower garden of formal design, this sun-dial is flat on the ground, where the figures may be of living plants, or the disk itself of grass with insert figures. The gnomen invites a Climbing Rose or other trailer. The garden of Mrs. H. T. Crawford, Lewellyn Park, Orange, N. J., Clarence Fowler, Landscape Architect

Photograph by Kenneth Clark

II. With a wall to the south and the ground itself perhaps shaded, the sun-dial in rectangular form is ingeniously elevated and placed perpendicularly, thus becoming an architectural feature. Home of John Taylor Arms, Greenfield, Conn., Clark & Arms, Architects

Photograph by Kenneth Clark

III. In the conventionalized manner, this sun-dial is placed on a convenient pedestal where the open sunlight strikes, and is employed as a definite note in the axis of the garden design. Garden of Mr. W. G. McCune, Greens Farms, Conn., Butler & Corse, Architects

The Romance of Rooms

Illustrated with 7 Plans and 32 Grouped Room Arrangements on pages 6 to 16 Inclusive

Ruth Robinson Tregenza

Author of "The Decoration and Furnishing of Homes," Instructor in Home Decoration at Teachers College

A HOUSE is a collection of rooms having different functions or purposes. The earliest homes in any country had only one room which had to answer for all purposes. With prosperity came advancing standards of decency, comfort, and refinement and the one-roomed house gradually enlarged to two or more rooms. The functions a house must serve are threefold; rest, work, and play, and it divides itself up accordingly. There must be accommodations for sleeping and private retirement which are usually on the second floor; for preparing food and general upkeep provided by the kitchen, laundry, etc.; and for the social life and the enjoyment of leisure. It is this latter which necessitates a living room, a reception room, dining room, porches and rooms for games and music and for reading if the scope of the house allows. Considered from this angle of the three functions the home becomes more or less of a symbol of well-balanced organized family life, working, resting, and playing in proper proportion. It will be seen how closely the art of the home does reflect the activities of the family, for interior treatment naturally conforms to the various functions of the rooms. Needs and practical considerations must be met first but always with as much grace as possible, after which beauty may flourish just *as* beauty for the pleasure and good it does to all who use the house.

The sleeping rooms, when not used for anything but rest, should have as a motive quiet, and daintiness. When used also for day-time sitting rooms, they may be more completely furnished, but nothing should disturb the sense of restfulness which is the primary function of the room.

Kitchens are workrooms and ought to look like laboratories, demanding light and ventilation, convenient and simple arrangement and no decoration except such as conforms to these requirements. As human beings work in them, however, there must be some charm for the eye and the imagination and this is obtained by good color and form of the necessary things, the painting of the walls and cases; the shape of utensils, earthenware or even some amusing curtains or perhaps a window-box of flowers.

The living quarters planned for the play-times, however, the times when people do not have to be thinking practical thoughts and acting efficiently upon schedule, offer the greatest interest and opportunity to the decorator and owner. In these rooms people really live. They relax, do whatever they like to do, whether it be light agreeable work, reading, enjoying music and art, visiting or playing games. They are at ease and the problem is to provide a background in harmony with this. Moreover, here they are most natural and at their best and the surroundings show them in their most characteristic attitudes, emphasizing the choices they make when free. Whether there are many rooms or only one living-dining-room combined, here is the heart of the house.

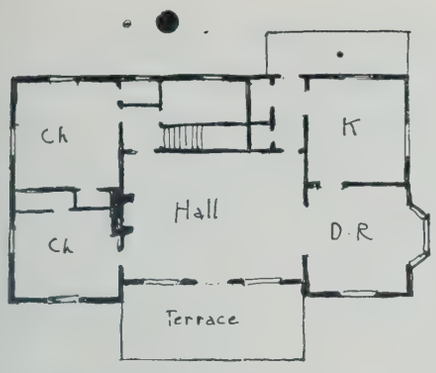
HAVING in the last thirty years in this country run through the range of practically all known styles in the building and decorating of homes, we seem to be gradually stabilizing. Our style tendencies now may be said to be formulating along logical and recognizable lines. People are acquiring sufficient background of experience and knowledge and taste to realize that certain style tendencies in architecture and the allied arts are natural and suitable to certain conditions and localities.

The south Italian and Spanish dwellings, for instance, with their flat roofs are peculiarly well suited to semi-tropical regions, while the cold north finds appropriate expression in the architecture of northern European countries and in our own Early American efforts. The principal choices to-day seem to be, then, on the one hand, the rugged, colorful, picturesque though modified 16th and 17th century English cottage or manor house, with oak, pine and maple furniture, iron hardware and other simple homemade and even crude looking furnishings; and, on the other hand, the 18th century classic type which we have been in the habit of calling Colonial but which more properly should be thought of as American Georgian or even Early Republican when it represents the early 19th century. You know at once what furnishings go in this home —mahogany, satinwood, and painted furniture with maple too and even pine. The two types can really be characterized by the two adjectives rough and smooth. Still a third type is making a great appeal at the present time, the colorful Mediterranean which means the Spanish and the Italian. A third available choice then is the stucco, tile roofed house, irregular, picturesque, the interior of which we visualize as gaily hung with textiles and planned as in the Old World about a central court with fountains and flowers.

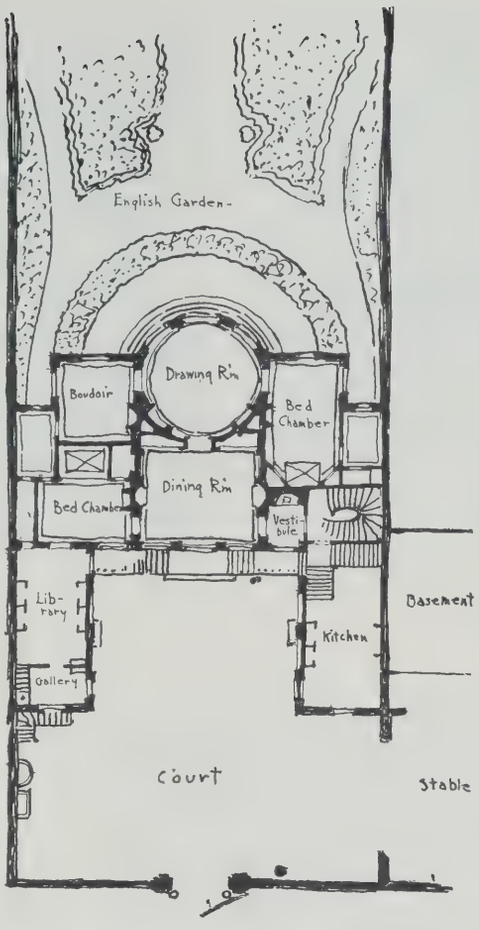
PLANS tell us much of the social conditions of their times. Strangely enough, something of the same pressure of economic conditions which made one room the utmost possible attainment of its time long ago is bringing about a return to it, in different forms, the most usual of which in urban districts is the one-room apartment with bath and disguised kitchenette. In the small house, rather than have several small subdivisions variously called parlor, dining room, den, etc., often

Practical considerations have been met with the utmost grace both in the initial design of this room and in its furnishing. Home of Mrs. Lois Harriman, Bedford Hills, N. Y.; Butler & Corse, Architects

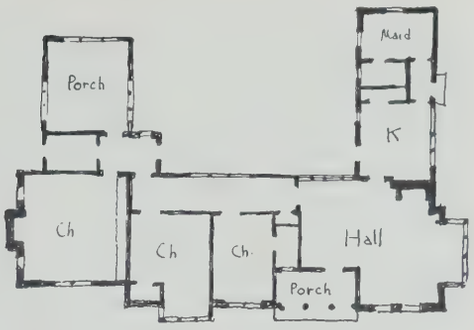
A pleasant corner in the living room of a Larchmont, N. Y., home designed by E. D. Parmelee



Plan for a modern bungalow (above) showing clear division of the three functions—rest, work, and play—which every house must serve



Many early solutions of the problem of comfortable living still hold suggestions for the modern home builder and this symmetrical 18th century French arrangement (right) keyed about a large circular room overlooking the garden, might be charmingly adapted for present-day uses



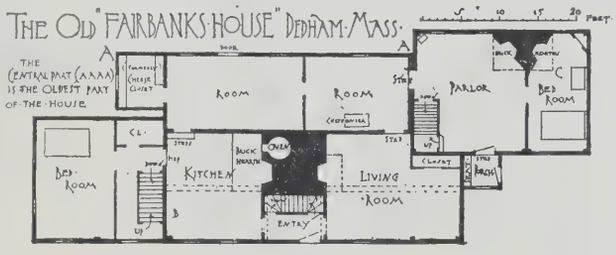
Plans tell much of the social conditions of their times, and this pleasantly rambling arrangement (modern American, adapted from plan by Alfred Hopkins) meets the essentials of simple living

the modern owner wisely chooses to have one finely proportioned room which he can decorate attractively and where he can, with the aid of built-in conveniences, have at one and the same time comfortable living room, dining room and even bedroom.

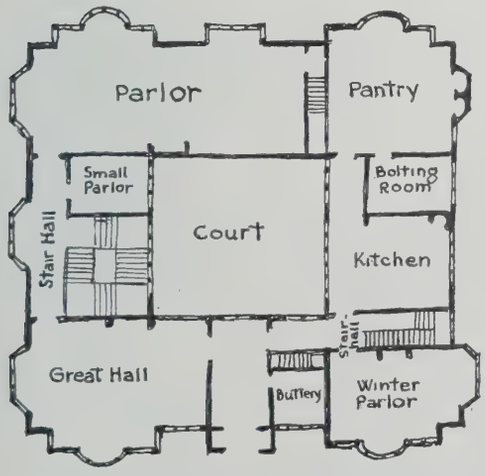
No one can prescribe a set of rules for the carrying out of a style, but the late 18th century classic style, called Colonial, may better than most styles be learned from books. Traditional, conservative, practical, and the result of the decisions of many thoughtful, restrained and well-bred Anglo-Saxon people, it is probably the best style for most Americans. Strange to say, however, the other styles, not nearly so well expressing our supposedly hard-headed and practical natures seem to be nearly as much used at the present time as the Colonial —a revulsion of feeling perhaps from the mechanical tendency toward the rough, the primitive, the "romantic," reminiscent of Mediaeval English and Pilgrim American as well as the colorful Italian, Spanish, or provincial French. Instead of being economically compact, these plans ramble and break in the most unexpected way, having irregular shaped rooms sometimes, and even floors of different levels. Full of surprises, emotional and spontaneous as they are, such houses appeal to our imagination and our hearts. They seem to grow up as if a very part of their sites and their interiors should belong to them as though they, too, were more the result of nature than of man's effort. Study of the evolution of house plans confirms our feeling of affection for the primitive, rambling, picturesque type which has been used far longer than the formal, symmetrical one and is, therefore, closer to our inherited instincts.

It is interesting in studying the plans of old houses to note how refinement and luxury gradually changed them. We realize that these earlier people felt just about as we do in all essentials. We see how practical they were, what they did to meet new conditions and how tenacious they were of the old forms. The old castles and manor houses of the 13th to the late 15th century were fortress-like, heavy of wall with small windows seldom glazed, and with the fire, often as not, burning in the middle of the floor of the one great room where food was prepared and eaten by all ranks together. The master with his family and his guests sat on a daïs at one end of the hall and were served from the front of their long narrow table, it being significant that they always ate with their backs to the wall and kept their eyes on what was going on.

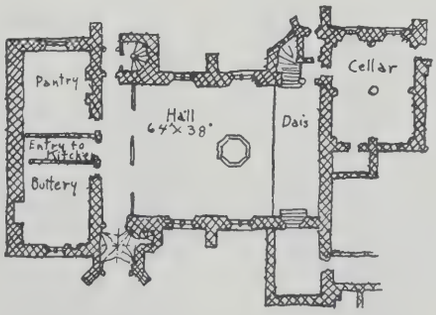
(*Continued on page 578*)



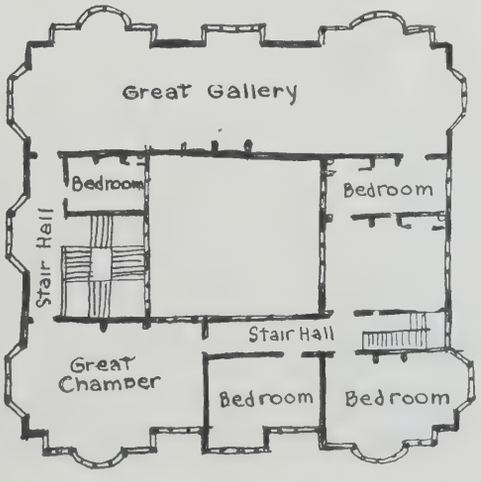
It is interesting in studying the plans of old houses to note how refinement and luxury gradually changed them. The central part of the old Fairbanks house (at Dedham, Mass.) shown above was built in 1636



House of the 16th century, first floor plan (freely adapted from Quennell's "History of Every-day Things in England") to which the modern duplex apartment traces back (see text page 578)



Plan of Penshurst Castle, Kent, England, 14-15th century, expressive of the needs of feudal days when food was prepared and eaten by all ranks together in one great room



Second floor plan of a typical 16th century English manor house built about an interior court (see first floor plan at left)—the duplex apartment of to-day shows the inspiration of this early Elizabethan type

Residence of Mr. Robert M. Haig at Riverdale, N. Y.; Julius Gregory, Architect

Typical of to-day's trend toward simplicity and very pleasant in its restraint

Mr. J. A. Clark's Westbury, L. I., home designed by Peabody, Wilson & Brown

Ten Well Planned Living Rooms

Photographs by Mattie Edwards Hewitt, Kenneth Clark, Tebbs & Knell, John Wallace Gillies, J. C. Mangans, S. Osato, and Eddy's Studio

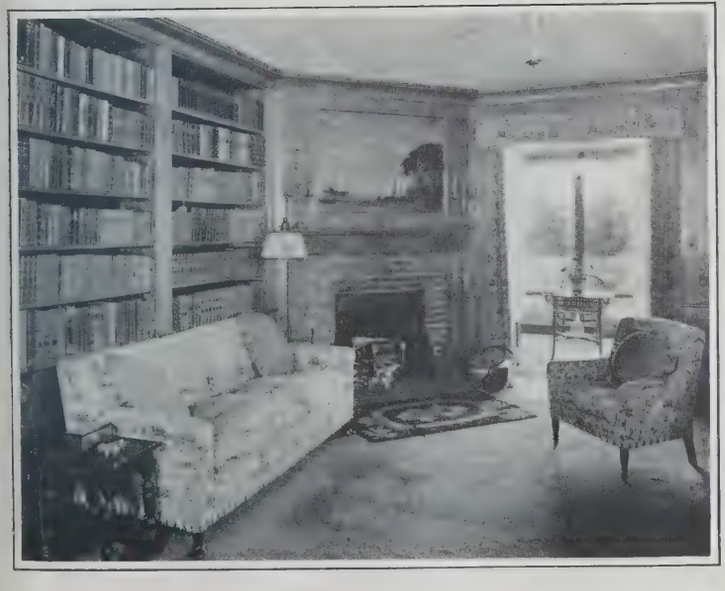
In Mr. H. G. Streat's living room, Bronxville, N. Y.; Lewis Bowman, Architect (above). Dr. E. C. Cady's house at Southern Pines, N. C.; designed by Aymar Embury II (right)

Residence of Mr. C. W. Howard at Greenwich, Conn.; Henry W. Rowe, Architect

Designed by Mr. Leigh French, Architect, for his New York home

The functions of a house are three: rest, work, play—and the enjoyment of leisure necessitates a living room. These living quarters planned for playtimes, the times when people do not have to be thinking practical thoughts and acting efficiently upon schedule, offer the greatest interest and opportunity, for in these rooms people really live. They are at ease and want a background in harmony with this. Moreover, here they are most natural and at their best and the surroundings show them in their most characteristic attitudes, emphasizing the choices they make when free

Living room paneled in white oak designed by Russell S. Walcott for Mr. T. E. Wells



(Left) Residence of Mrs. Artemis L. Gates, Locust Valley, L. I.; Walker & Gillette, Architects. Mr. Waldo Sheldon's house at South Norwalk, Conn.; Frank J. Forster, Architect (above)

A Dozen Dining Rooms

The earliest houses in any country had only one room to answer all purposes, but as time passed and conditions changed the three functions of the home (rest, work, and play) demanded space and were gradually given quarters of their own. So the great hall of the Middle Ages where folk cooked and ate and lounged and sometimes even slept has been split into several rooms, each for a specific purpose to meet the varied requirements of more sophisticated living

Breakfast room in the home of Mr. W. G. McCune at Greens Farms, Connecticut; Butler & Corse, Architects

A North Carolina dining room—Mrs. John Y. Boyd's, Southern Pines—designed by Alfred B. Yeomans

Residence of Mr. Rudolph Wild, Wareham Mass; Howe & Manning, Architects

Home of Mr. H. G. Streat, Bronxville, N. Y.; Lewis Bowman, Architect

Designed for Comfort

(See two following pages also)

Photographs by Jessie Tarbox Beals, Mattie Edwards Hewitt, Kenneth Clark, John Wallace Gillies, S. H. Gottcho, Eddy's Studio, Tebbs & Knell

Paneled dining room at Mr. A. B. Elliman's, Tompkinsville, Staten Island; Haugaard & Burnham, Architects

In the home of Mr. J. P. H. Perry at New Canaan, Conn.; designed by Calvin Kiessling, Architect

Breakfast room of Mr. Myron Harris, South Orange, N. J.; David M. Ach, Architect

Mr. Chester Young's house at Pelham, New York; Frank J. Forster, Architect

Photographs by
Mattie Edwards Hewitt
and Kenneth Clark

Dining room in the American Home designed by Carl L. Otto

Residence of Mrs. Artemis L. Gates at Locust Valley, L. I.; Walker & Gillette, Architects

House of Mrs. Lois Harriman, Bedford Hills, New York; Butler & Corse, Architects

Tebbs & Knell, Photo.

Breakfast room at the home of Mr. J. A. Clark, Westbury, Long Island, designed by Peabody, Wilson & Brown

Bedrooms in the American Home; Carl L. Otto, Architect

Seven Restful Sleeping Rooms

Photographs by Mattie Edwards Hewitt, John Wallace Gillies, and by courtesy of the Arden Studios, Inc.

Mr. Waldo Sheldon's house at South Norwalk, Conn.; Frank J. Forster, Architect

A child's room designed by Carl L. Otto

Home of Mrs. William H. Averell, Rochester, N. Y.

Quiet and daintiness are primary essentials of the bedroom, though when used also for day-time sitting it may be more comprehensively furnished as in this easeful room at the home of Mrs. J. P. H. Perry, New Canaan, Conn.; Calvin Kiessling, Architect

Pleasant simplicity characterizes this bedroom at Mr. Robert M. Haig's, Riverdale, N. Y.; Julius Gregory, Architect

A pleasant and colorful "workshop" in the home of Mrs. Robert M. Haig, Riverdale, N. Y.; designed by Julius Gregory

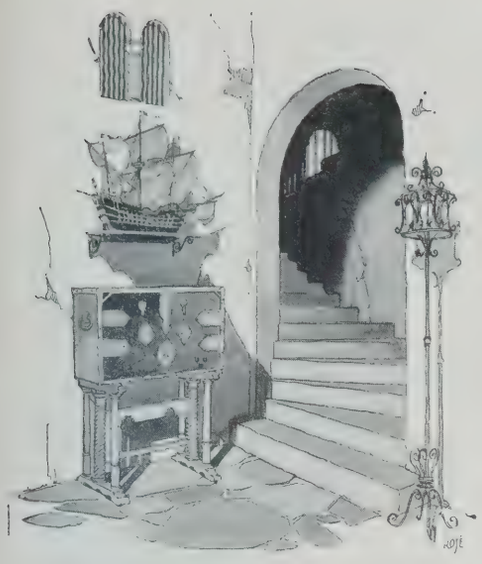
A Trio of Up-to-Date Kitchens

Photographs by John Wallace Gillies

A far cry indeed from the days when meat was turned on a spit in the great manor hall are these convenient, cleanly, and well-lighted kitchens. "Kitchens are workrooms demanding light and ventilation, convenient and simple arrangement and no decoration except such as conforms to these requirements," writes Mrs. Tregenza, "but there must be some charm for the eye and the imagination and this is obtained by good color and form of the necessary things, the painting of the walls and cases, the shape of utensils, earthenware, or some amusing curtains or perhaps a window-box of flowers"

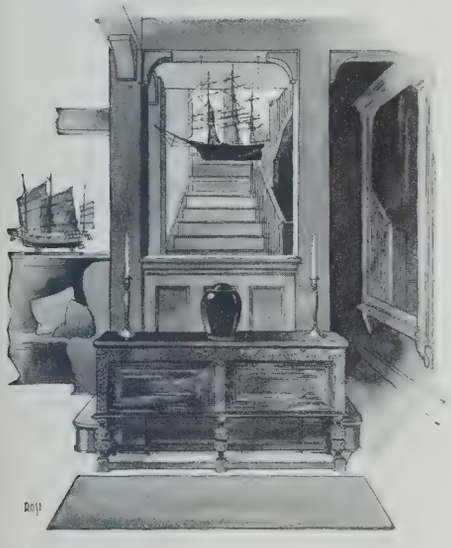
When an architect plans his own kitchen individuality routs commonplaceness. Mr. Frank J. Forster's house at Great Neck, Long Island

Modern equipment of the laboratory type in the American Home; Carl L. Otto, Architect



If you own a model of a Spanish caravel, the *Santa Maria* perhaps, freighted with all the age-old lure of the far gone romantic days, she seems to demand a somewhat mediaeval setting. Above a Spanish chest, credo, or bargueno, these picturesque little ships rest most happily. The Santa Maria might likewise adorn an Italian interior, either hung from the rafters, inset on a shelf, poised on a cassoni, or set in a plaster niche, with decorative iron doors to close in front of her

A model of the *Constitution* is shown housed in a white-paneled niche over a colonial fireplace. A clipper ship of the early 19th century might have a similar setting



If your model is an English merchant ship, she might swing in almost any space. In the illustration she hangs comfortably between columns above an oak chest, and a chinese junk, that gaily painted toy of black lacquer and vermilion, with her quaint rattan sails, may bear her company

Little Ships that Never Sail the Seas

by

Grace Norton Rosé

and

Jack Manly Rosé

Their sails have never filled to the varying breezes of the seven seas nor have their anchors ever rattled down in far-away ports, but we must berth them comfortably somewhere, these little ships, models of the craft that have plied their way through storm and calm in all time and on all oceans

If your model is an East Indiaman, or a trader from the celestial China Coast, place her on library bookshelves, and flank her with any of the interesting loot from the China sea that the sea captains brought back in the old days

A somewhat appropriate anchorage for a model of a whaler, probably a dark, rugged, sturdy affair, with painted gun ports and heavy wooden davits, would be a paneled stairlanding, vaguely suggesting a ship's cabin. Ships' lanterns, cutlasses, pistols, scrimshaw work, old pewter, ships' bells and whaling implements, all make suitable groupings about these early American sailing vessels

A replica of an English ship-of-the-line, possibly the *Royal George* of tragic fame, sails most appropriately in the light against a high Tudor window, slung on fine wires from the rafters above

The sunken garden at Cedarmere, with the stone wall border and Box garden beyond to the right

The Garden of a Poet Plant Lover

William Cullen Bryant's Home on Long Island

By John W. Harshberger

Professor of Botany, University of Pennsylvania

Photographs by Mattie Edwards Hewitt

"To him who in the love of nature holds
Communion with her visible forms, she speaks
A various language; for his gayer hours
She has a voice of gladness, and a smile
And eloquence of beauty, and she glides
Into his darker musings with a mild
And healing sympathy, that steals away
Their sharpness ere he is aware."

THESE lines, the opening ones of "Thanatopsis," bespeak the intense love of nature, which William Cullen Bryant had throughout his career as poet, editor, and proprietor of the New York *Evening Post*. With the spirit of Wordsworth, although not an imitator of that English poet, Bryant worked with entirely new materials, but he displays the same passion for the mountains, forests, and streams, the same contemplative moods, the same exclusion of human enmities, the same absence of gayety and humor, which we find in the philosophical poet of England. Bryant's natural world was America, and at Roslyn, Long Island, the chosen place of his home, he was away from the turmoil of the great city's life.

Roslyn is a town at the southern end of Hempstead Harbor, a deep fiord of Long Island Sound, six miles long from the open waters of the sound. Harbor Hill, from which the northern glacial moraine takes its name, 391 feet in elevation, and a chain of three lakes back of the town and an extensive salt marsh in front are noteworthy features of the countryside. The rather steep slopes of the wooded hills along the shores of Hempstead Harbor and a bar beach, which juts out from the western bank, make that variety of topography which probably determined Bryant to locate here when in 1825 he removed from Massachusetts to New York to engage in literary pursuits. The same attractions have brought many millionaires to this part of

Long Island, where landscape and seascape provide the setting for the establishment of fine estates with gardens unsurpassed in America.

"The hills,
Rock-ribbed and ancient as the sun, the vales
Stretching in pensive quietness between;
The venerable woods—rivers that move
In majesty, and the complaining brooks
That make the meadows green; and poured round all,
Old ocean's gray and melancholy waste."

Mr. Bryant, attracted by the rare combinathin of hill and dale, sparkling waters and shadowy forests, bought the residence originally built by Richard Kirk, a Quaker at Springbank, because of the multiplicity of springs of beautiful, clear, cold water which gush out of the moraine, where the clay outcrops below the glacial till and gravel. Here the conditions are favorable for the growth of big trees of species which lead a languishing existence on the tops of the morainic hills, where the underground water supply is scanty. On the opposite shore of Hempstead Harbor from Cedarmere, Bryant's country place, is a magnificent spreading Beach on the hill slope of the grounds of Walter Hicks with the lower part of its trunk and its upper roots occasionally wetted by salt water, which at high tide overflows the fringing salt marsh. Such Beech trees have smaller, thicker leaves and may be called salt Beeches. In olden days this water was treasured as a source of power, and was the only means available for the making of paper, the grinding of grain, etc. Roslyn possessed no less than seven or eight mills of various kinds and was considered a manufacturing center. George Washington stopped here and records in his diary a visit to the mills of one Andrew Onderdonk. One of the old grist mills, built in 1701 along the main street near the clock tower and with a portico overhanging the harbor waters, was converted in 1914 into an attractive antique shop and tea room with the preservation of much of the old milling machinery, which give a peculiar charm.

Cedarmere, the summer home of the poet, is now occupied by Mr. Harold Godwin, his grandson, who takes great pride in preserving the Bryant atmosphere. The house was built in 1786 of large white oak beams and was typical of the early Dutch style with gambrel roof and high columns in front. Mr. Bryant surrounded his house with piazzas supported with latticed pillars upon which he trained Trumpet-vines and Virginia Creepers. He changed the old road, which ran in front of the house, laid out gardens and beautified the grounds with trees and shrubs of many and often rare varieties. The garden with Box edges and walks laid out in geometrical style with a fountain in its center was probably the plan of Mr. Bryant's predecessor, but it is an attractive place at all times with its old-fashioned Roses, its beds of Peonies, its Hollyhocks and other perennials in season. At one end Mr. Bryant erected a summerhouse, which he covered with Akebia which grew in profusion. The old Box garden runs down the slope of the hill which descends to a pond one or two acres in extent, lying in front of the house and overflowing into the waters of Hempstead Harbor some twenty-six feet below.

"Here I have 'scaped the city's stifling heat,
Its horrid sounds, and its polluted air;
And where the season's milder fervours beat,
And gales that sweep the forest borders, bear
The song of bird, and sound of running stream,
Am come a while to wander and to dream."

Alongside the Box garden is a sunken garden with a border of attractive perennials the stone wall of which bears at one end (nearest the house) a medallion portrait of the poet. The inclosed area is a flat, grassy lawn, suitable for a croquet game, or for the delightful game of bowling. The long frontage on the bay gave an unobstructed view of the opposite shore and provided opportunity to watch the ships which came for the manufactured products of the mills at Roslyn. The land above the road extending to some two hundred feet above tidewater was occupied by the farm, and a piece of woodland from which Bryant had a northerly view of the waters of Long Island Sound. The poet was fond of this piece of forest as a retreat in the hot days of summer, and he and Mrs. Bryant contructed the paths which rambled through it. Many of his poems were written in Roslyn, and some no doubt were inspired by the (then) solitude of the spot. All seasons of the year appealed to our Roslyn poet, who in smooth and elegant lines with no meaningless ones for melody alone, gives us instinctively the spirit of spring, summer, autumn, and winter.

"The country ever has a lagging Spring,
Waiting for May to call the violets forth,
And June its roses, showers and sunshine bring,
Slowly, the deepening verdure o'er the earth;
To put this foliage out, the woods are slack
And one by one the singing birds come back."

These lines as a part of a poem entitled "Spring in Town" seem to breathe the poet's impatience to get back to his favorite country again. One of his celebrated poems, "The Death of the Flowers," carries us through the autumn into the bleak period of the year, when a few mild days entice the bee and the squirrel out of their wintry homes. The selected stanza will serve to give in Bryant's own words what he gained by residence at Roslyn, where he could feel the changing moods of wild nature all about him.

"And now, when comes the calm mild day, as still such days will come,
To call the squirrel and the bee from out their winter home;
When the sound of dropping nuts is heard, though all the trees are still,
And twinkle in the smoky light the waters of the rill,
The south wind searches for the flowers whose fragrance late he bore,
And sighs to find them in the wood and by the stream no more."

Editors' Note: Other gardens of historic interest in the vicinity of New York will be described by Dr. Harshberger in later issues.

The garden with Box edges and walks laid out in geometrical style with a fountain in its center. The Box, with its "odor of eternity", has the rich growth of years, indeed a prized possession nowadays

Interesting People in Interesting Gardens

Photographs by B. G. Phillips, Gabriel Moulin

MR. HAROLD MACGRATH

Mr. Harold MacGrath enjoys an extraordinary measure of seclusion and diversity in his Syracuse, N. Y., garden whose tranquillity holds no hint of the city which surrounds it. "The Cellini Plaque" is the latest addition to the long list of romances which entertain this author's wide audience

MR. BOOTH TARKINGTON

The "gentleman from Indiana" is a lover of ships and of seaswept places and finds the brilliance of his Kennebunkport, Maine, garden a sympathetic summer background for the exacting job of an authorship which has produced "Alice Adams" and "The Magnificent Ambersons" both Pulitzer Prize winners

MRS. KATHLEEN NORRIS

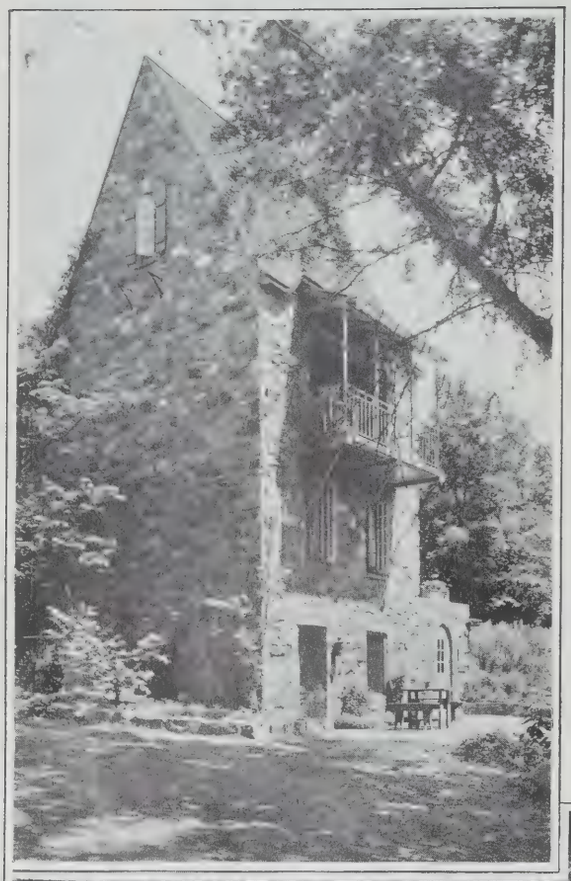
In her garden set among the wide and sunlit spaces of the Santa Cruz hills, Kathleen Norris finds inspiration and refreshment—shareable joys as her many readers know and the forthcoming "Hildegarde," too, flowers out of California soil

Converting Old Homes to Present-day Needs—II

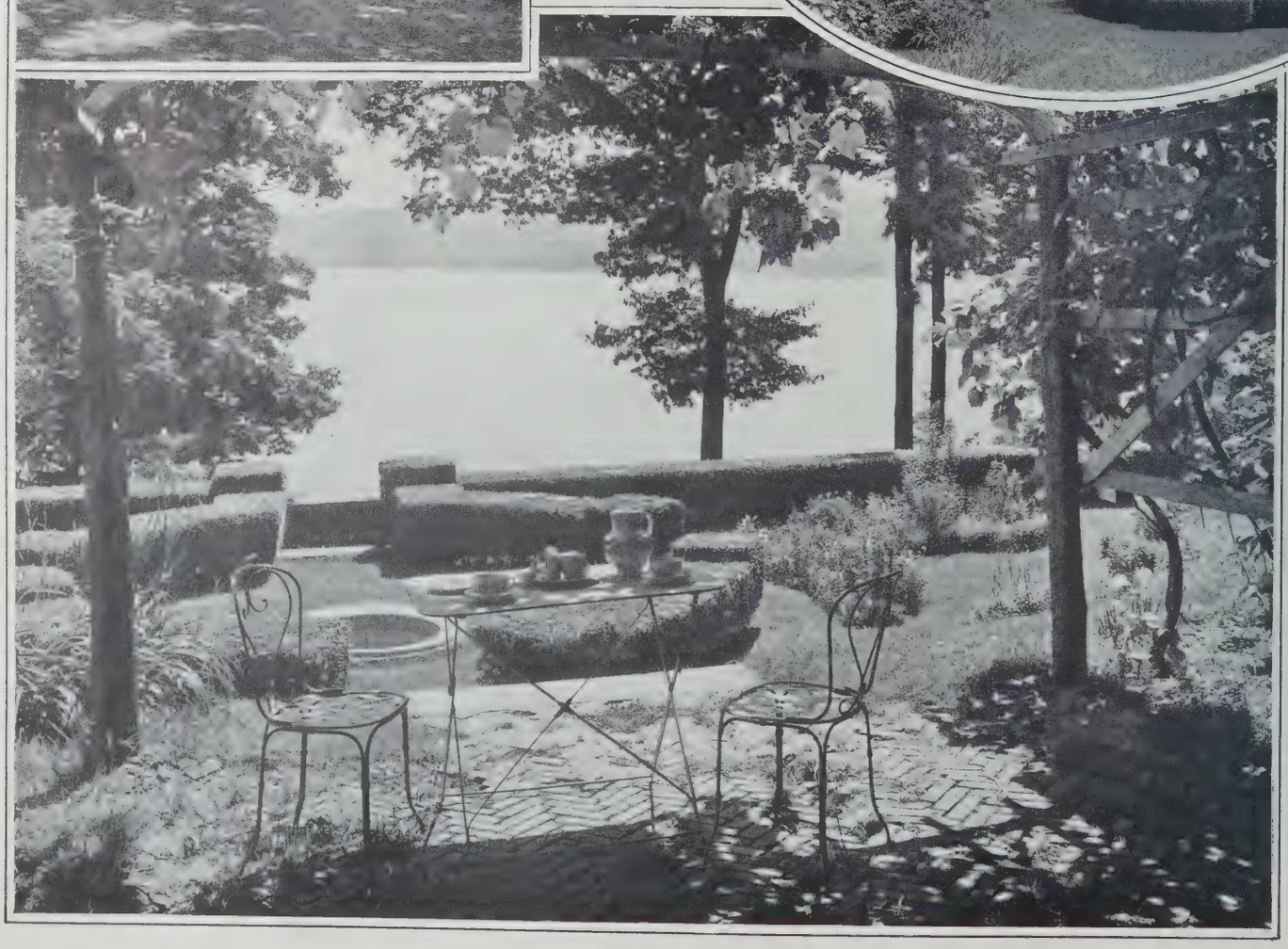
Amy Richards Colton

Photographs by Mattie Edwards Hewitt

UNTIL recent years nearly all of us thought of our garden—if we had one—as a spot set apart from the house, in which one cultivated flowers for picking or in masses for decorative purposes; but always as an added and separate attraction which was not considered in relation to the house and grounds. Ugly flowerbeds would be stiffly cut out of a smooth lawn in formal shapes, but forming no general pattern, and there was seldom any well-developed plan for the arrangement of flowerbeds and shrub-



Two utterly divergent types that have been adapted to modern needs



Outdoor living on the banks of the Hudson

beries, in which the house as a center and the contours of the land had been regarded as a whole.

In addition to this haphazard way of planning one's garden, there was little thought of using it for out-of-door living. A roofed veranda furnished with a hammock and chairs set stiffly in rows, and a rustic summer-house set so as to overlook some special view, were for many years the only attempts of open-air living, except in portions of the South where a warmer climate forced people into the open.

For some time, fortunately, the possibilities of living more in the open have been develop-

Grape-vines and a spreading old Crab-apple make this terrace (above) at the author's home a pleasant spot for out-door living. Nearly all the old houses of the Hudson River valley have well-kept arbors and trellises covered with fine old vines (see right)

Almost any old house offers easy, inexpensive ways to eat and live out-of-doors

ing, and now almost everyone with a plot of ground is considering the best way to use it to its full advantage for practical living and decoratively. In building a new house, much time and money are required to develop the land into a garden in the true sense—i. e., in relation to the house and its own contours—but in buying land on which is an old house, there are sure to be remnants of a garden, including trees and shrubs, and this means spending far less time and money.

The Dutch Colonial houses described in the foregoing article (June, page 341) lend themselves very kindly to the development of a scheme for out-of-door living, and in most cases the nucleus of a garden is there to start from. The early settlers of Pennsylvania, New Jersey, and the Hudson River valley seemed to have had a passion for Grapes. Nearly all their houses still bear evidence to this fact in the numbers of well-kept arbors and trellises covered with fine old vines (see picture above). In many cases the arbors are directly attached to the house, and by paving them underneath with flags laid in patterns or irregularly, an out-of-door living room is at once created. It may be furnished with either strong wooden furniture painted decoratively, with wicker, wrought iron, or a combination of all of them. Cushions can be covered with gay, waterproof chintz or oilcloth, thus eliminating the nuisance of bringing them indoors when it rains.

A wall fountain against the house (see photograph at left) is a valuable addition to an out-of-door living room from a decorative point of view, and the psychological effect of running water in summer is realized by everyone who has listened to it. These fountains may be of lead, glazed or unglazed pottery or cast stone, and much or little may be spent on

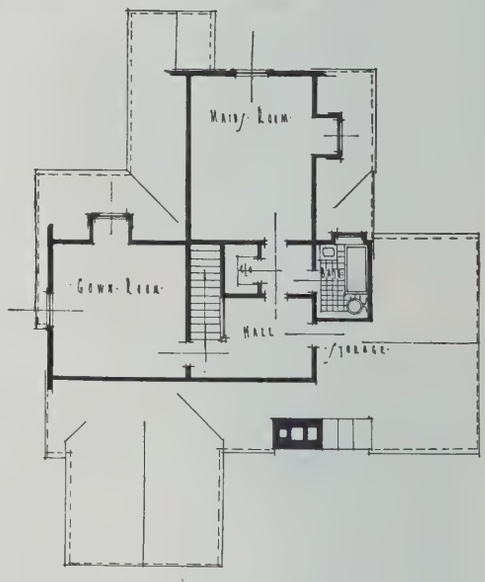
(*Continued on page 574*)

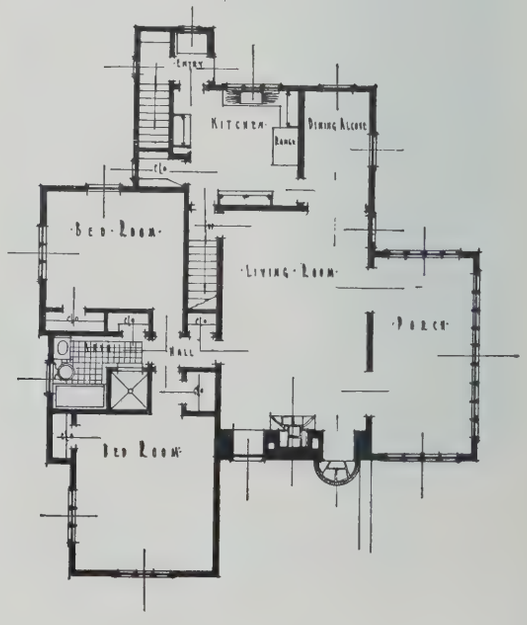
Home of Miss Mabel Brownell

at Douglaston, Long Island

Otto Preis, Architect

Photographs by John Wallace Gillies





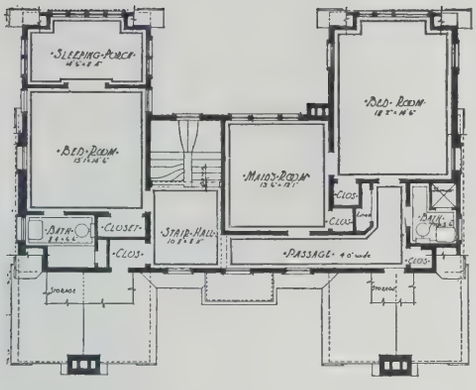
A very adroit use of the natural drop has been made and this fitting of the house to its site adds character to the finished dwelling and interest to its plan (note garage on lower level)

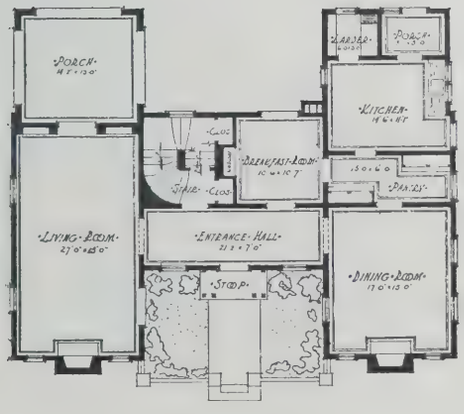
Mr. H. B. Thomson's Home

at Dallas, Texas

Thomas & Swaine, Architects

Photographs by Tebbs & Knell





Echoes of the Colonial are everywhere found and everywhere adaptable—this low-lying dwelling seems as legitimately linked to the plain-land of "the Lone Star State" as were its prototypes to the hills of New England

Brickwork and half-timber thus sparingly and skilfully used add vivacity to the American house of English tradition

A Minnesota Home

Designed by

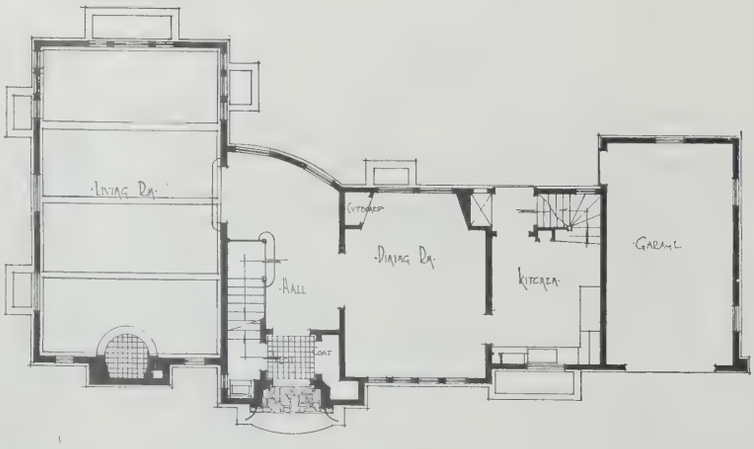
Kenneth B. Worthen

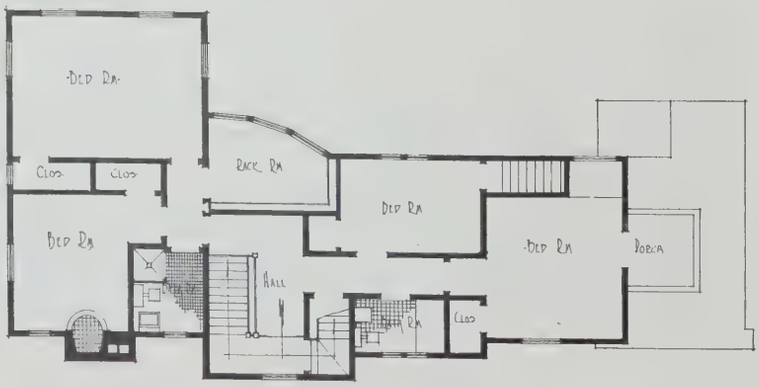
for

Mr. J. H. Wilkinson

at Saint Paul

Pictures by
Northwestern Photographic Studios, Inc.





There is an increasing tendency to do away with detail and the absence of door casings and other trim makes for restfulness

How You May Breed a New Fruit

Harold B. Tukey

OF COURSE it is mostly a gamble, this breeding of new fruits, and like the roll of the dice that brings a six or a two or a four, so the chances of producing the desired fruit are outweighed by the chances of getting something quite different. There is nothing to prevent fortune from smiling on any one of us just as fully as it did upon Ephriam Bull, the originator of the Concord Grape, when from seed taken from a Grape vine growing in his garden came the Grape that revolutionized the grape industry in America.

And just as the loaded dice more often turn up the desired numbers, just so are the breeder's chances of success increased by an understanding of his subject. For example, the Baldwin and Rhode Island Greening Apples make very poor parents, seldom stamping their offspring with their own famous characters, while on the other hand the McIntosh variety is a worthy sire of a race of fruits with the characteristic aroma, white flesh, and attractive coloring of the parent. Jersey Black stamps its children with high color, Delicious produces many sweet apples, and Deacon Jones gives size. If the breeder, then, desires a sweet apple of a good size he will have more chances of success if he used Delicious and Deacon Jones as parents than if he tries Baldwin and Rhode Island Greening.

After the appearance of the Concord Grape Ephriam Bull continued planting seed and looking for still better grapes, working on a larger scale than before, yet he never produced another remarkable grape. E. S. Rogers, however, with painstaking attention to the selection of the varieties he used as parents and with full appreciation of the breeder's art produced a score of desirable sorts including Agawam, Barry, Herbert, Goethe, Massasoit, Salem, and Lindley in a relatively short time.

From this much it will be surmized that there are two methods of originating new fruits, the one consisting in planting seed and hoping for the best, the other in systematic breeding. No matter which is used, the principles are fundamentally the same, based upon the fact that there are two essential parts to a flower, the male part, producing the yellow pollen-powder familiar to any one who has buried his nose too deeply in a fragrant blossom, and the female part, which when fertilized by the pollen produces seed.

Though we frequently look upon the flower or the fruit as final objects of the plant they are really only agents in the production and dissemination of seed, by means of which the plant reproduces itself. The perfume and beauty of the flower attract insects to brush pollen from one flower to another, and the attractive fruit is Nature's way of inducing you and me and other animals to scatter the valuable content of seeds.

A LARGE FLOWER LIKE THE APPLE IS EASY TO WORK WITH

Just before the petals expand (left) they are removed together with the stamens, leaving the pistils only to receive the pollen (right)—a delicate job, 'tis true, but one that practice makes easy (below)

THE breeder, to accomplish his object, must control the transfer of pollen, and he does it in a very interesting way. Before the blossoms are open, which means before the pollen is mature enough to fertilize the flower, he carefully cuts away the stamens, which are the pollen-bearing part, leaving the pistil, which is the seed-bearing part, in the center of the flower. Then by means of a paper bag tightly fastened about the twig he protects his work from the contamination of insect visitors, and in about three days the pistil shows a tiny droplet of sticky fluid at its tip and is ready to receive the pollen that is to fertilize the blossom and produce seed.

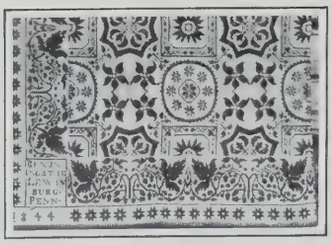
During the three days that the pistil has been occupied in reaching this stage of development the breeder has not been idle. He has visited the closed flowers of the tree he wants for the male parent in his cross and removed some of the stamens, which he placed indoors in a warm place to ripen. And now the great day comes.

With his little vial of pollen and a bottle of alcohol he visits the blossoms and removes the bags. There is a chance that his finger may have brushed against an expanded flower or some other object, and so he dips his finger into the alcohol to kill any pollen grains that may have lodged there, for these particles of yellow dust are so tiny that they are invisible to the naked eye. In a moment his finger is dry and he presses it into the pollen that he has brought with him. With thousands of little pollen grains adhering to his finger tip he gently touches each delicate pistil and reties the protecting paper bag to remain for a few days longer until the seed has begun to form and no outside influence can change its nature. Thereafter a netting bag replaces the one of paper as protection from insects and birds and possibly small boys until the fruit has matured and the seed been gathered—seed which may embody the form of a future plant to perpetuate the fruit breeder's vision.

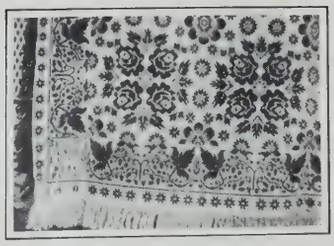
We have been told that the building of air castles is a worthy occupation so long as we put the foundations under them. Likewise it

(*Continued on page 576*)

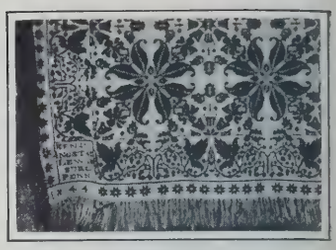
Quilt made by Emanuel Ettinger, Aaronsburg, Pa., 1840



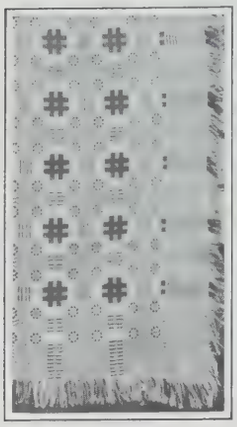
Woven by Benjamin Angstadt, Lewisburg, Pa., 1844



Woven in 1840 this old quilt has its maker's name



Woven in 1844 at Lewisburg, Pa.



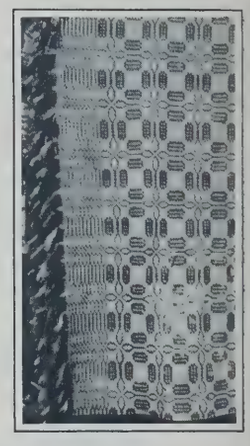
In blue and white, this makes an unusually lovely counterpane

Secret Diaries of Our Grandmothers

Old-fashioned Coverlets and Patterns that Continue to Please

Lewis Edwin Theiss

Photographs by Mattie Edwards Hewitt, and by courtesy of The Shuttlecraft Co., Arden Studios, James McCutcheon & Co., Lord & Taylor, A. W. Baylis Co.



The design of this old blue and white quilt is being reproduced by modern weavers

IF THERE are sermons in stones and books in the running brooks, what must be the contents of those old coverlets of our grandmothers! At the least they are volumes of romance, repositories of history, gaily colored diaries of thread, in whose warp and woof are written the sorrow and the glee, the suffering and the joy, of those patient women of the long ago. For in their coverlets could those sternly-repressed Puritan mothers of a bygone day find that avenue of self expression their hearts desired.

In her "Book of Hand Woven Coverlets," Eliza Calvert Hall (Mrs. W. A. Obenchain) has given us a word picture of those old Puritan mothers at their looms. "The housemother sits at her loom weaving in the late afternoon hours. . . . To and fro goes the shuttle over the warp, and to and fro goes the weaver's thought, over the water to Holland, the home of her childhood, or southward, to the camp of Washington, where two stalwart brothers are bearing arms for the cause of freedom. . . . She thinks of the news the lame soldier brought to the village last week and wonders if the battle he prophesied has been fought.

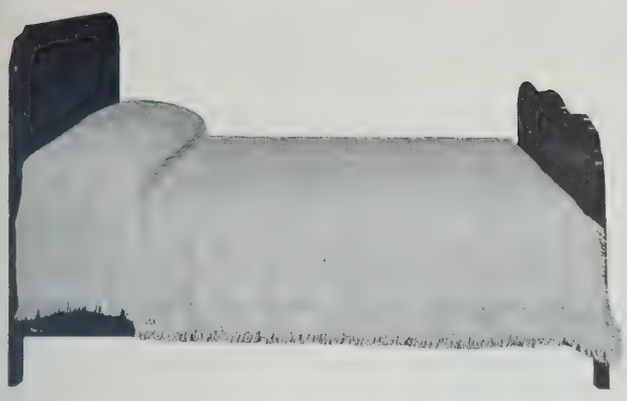
"The Dutch clock ticks loudly in the corner, and the clatter of the loom makes friendly answer. The sunbeams shine through the tiny panes of glass and rest on the burnished pewter vessels over the chimney, and touch to a pale lustre the smooth braids of the housewife weaving her blue and white coverlet."

If you do not think these old coverlets are replete with hallowed memories, listen to the names of some coverlet patterns. Here is one: "Rose in the Wilderness." Certainly there's a volume in that name. Can't you see the lonely Puritan mother, far from the lovely scenes of her English home, destined to spend the remainder of her life in the rude cabin in the still ruder forest?

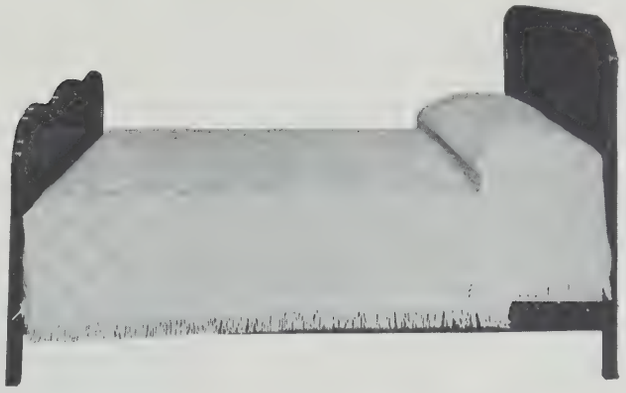
She names her creation, this thing that is an expression of her very own self, after the loveliest thing she has seen in this unlovely land to which she has come—"Rose in the Wilderness," "Flower of the Mountain," "Mountain Rose," "Pansies and Roses in the Wilderness," "Roses and Pinies in the Wilderness," and so on. In great variation you find the name repeated, and in every repetition you see beneath the name a throbbing heart.

In keeping with the Colonial bed and other furniture is this hand-tufted spread that lends decorative value without color

Perhaps the weavers who originated these names were older women. Romance had faded from the pages of their lives, and existence had become a matter of stern duty. If that be so, then we must think that younger women, perhaps women still unmarried, who were dreaming of romance, were responsible for such names as these: "Captured Beauty," "Stolen Beauty," "Troy's Beauty," "Boston Beauty," "Baltimore Beauty," and so on. If there is any doubt as to the psychology behind these names, surely there can be none about the following: "Young Man's Fancy," "Bachelor's Delight," "Isaac's Favorite," "Solomon's Delight," "Mother's Favorite." She must have been a dutiful daughter who conferred the last name; or per-



Of modern make these woven counterpanes may be had in all wanted colors



haps she did it in a spirit of mischief or rebellion who knows?

HAD there not been so much meaning in the making of a coverlet, it is likely that fewer would have been made for the making of "kivers," as the Southern mountaineer women term these articles, is so trying a task it needs indeed to be a labor of love.

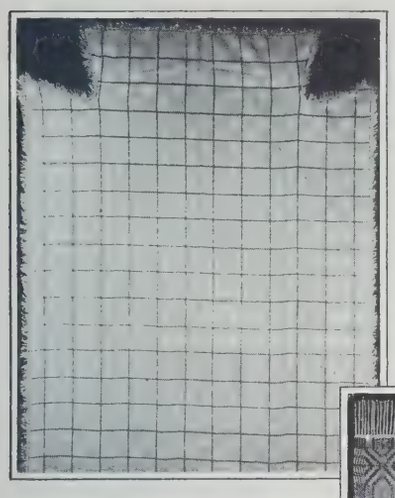
As was the case in the making of every other article in early days, the entire process of manufacture was carried on within the household. The weaver had not only to weave the coverlet, but first she had to make the materials. So months of time went into the making of a coverlet. Originally the warp was linen thread, and before the housewife could get this thread the flax had first to be grown and hackled and spun. When, in later days, and in the South, the warp was of cotton, it was necessary also to grow and pick and card and spin this into thread. The wool for yarn had to be grown on the backs of the family sheep, then sheared and prepared.

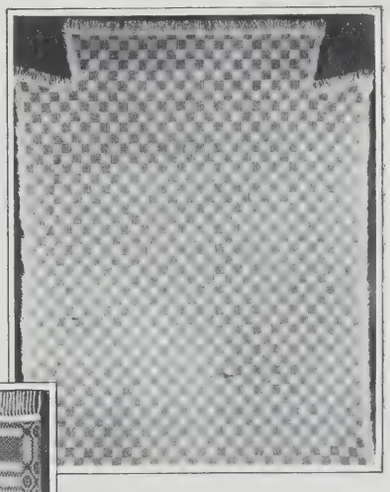
No part of the work was more exacting than the coloring of the threads; for before they could be colored, the dyes had first to be made. Mrs. Obenchain tells us something about this, and Mrs. Alice Morse Earle, in her delightful volume, "Home Life in Colonial Days," throws much light upon the matter of early dye making. Roots, leaves, bark, and even the stems of different plants were gathered by the busy housewife. And she had to know at just what season and in just what condition to gather the ingredients so as to secure the best results.

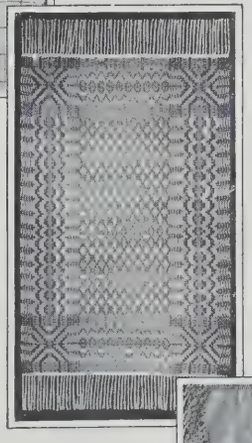
Blue was a favorite color. Both woad and indigo were used to make it. So great was the demand for this particular color that indigo pedlers traveled through the country selling it. Red was obtained from cochineal, logwood, madder, Nicaragua wood, Brazil wood and Cam wood. Browns and yellows could be obtained from the bark of the red Oak, Butternut, and the Hickory. Mostly the housewife got her dyes from the materials she gathered right at home.

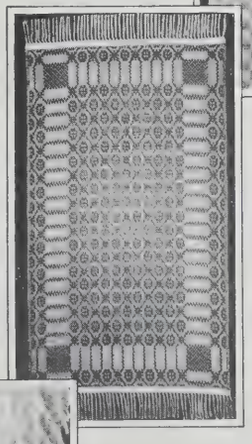
Flowers made good dyes. Goldenrod yielded a yellow juice, which, added to indigo, made a beautiful green. Pokeberries boiled with alum made a beautiful crimson. The petals of the wild Iris produced a fine violet juice that gave a wonderful purple tone to wool. Yellows and oranges came from sassafras. Mrs. Earle tells us that during the Revolution an enterprising South Carolinian got a guinea a pound for yellow dye he made from the Sweet-leaf or Horse Laurel. She also says that the leaves and berries of the Gallberry bush made a good black. By using different mordants, the skilled housewife knew how to make several different colors from the same materials. Salammoniac, alum, copperas, blue vitriol, verdigris, and cream of tartar were used as mordants.

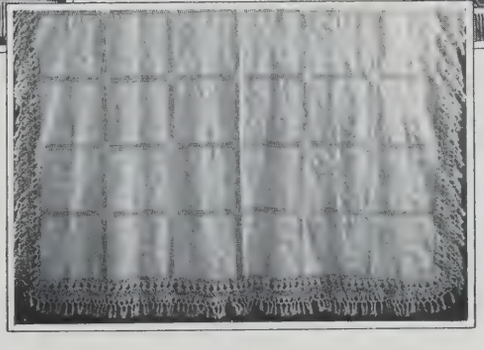
But in order to grasp the real labor involved in dyeing, we must view the housewife in the manifold processes of this art. Mrs. Obenchain tells us how Mary Stacy, a weaver of the Southern mountains, directed her to make certain dyes: "To two gallons of warm water add one pint of lye from wood ashes. Mix one pint of madder with one pint of wheat bran and a little water—enough to wet it. Put this in the bottom of a kettle with a white plate over it. Put the indigo in a thick cloth in the two gallons of water and when it is soft rub out the dye. Then put in the blue yeast saved from the last dyeing. Keep it warm —just milk warm—for four or five days without bothering it. At night draw hot ashes plumb around your jar. In the daytime keep it setting by the hearth, just lukewarm all the time. For a dark blue let the yarn lay in several hours. Take it out and air it and put it back. Be sure to wet the goods before you put it in. Rench it in cold water when you take it out. If you want a light blue, dip it over and over until you have just the right color."











The two quilts at the top of this group hold much of the beauty of the old hand-woven bedspreads and may be had with or without the cut corners. The two center illustrations are of modern hand-woven rugs that fitly accompany the woven spreads. The lower spread is hand-tufted, made by mountain women in the south

Mrs. Earle tells us what happens to the wool after it has been dyed, for it had next to be carded: "The wool was first greased with rape oil or melted swine's grease, which had to be thoroughly worked in; about three pounds of grease being put into ten pounds of wool. Wool cards were rectangular pieces of thin board, with a simple handle on the back or at the side. To this board was fastened a similar rectangle of strong leather, set thick with slightly bent wire teeth, like a coarse brush.

"The carder took one card with her left

(Continued on page 576)

Beauty Doctors of the Gladiolus

Forman T. McLean & William E. Clark

Part II.—Hybridizers of Eastern America Who Have Helped the Flower to Its Present-day Perfection

IN AMERICA there has been a lively interest in Gladiolus during the past quarter century. John Lewis Childs was one of the earliest seed and bulb dealers to specially feature the Gladiolus. His original Childsi varieties have most of them disappeared, though PRINCE OF INDIA is regaining popularity with the demand for smoky shades WM. FALCONER, one of the first of the Childsi introductions, compares favorably with the newest of the light pinks. But the chief interest in the Childsi of to-day is as the foundation stock of the American Gladiolus.

Banning was another of the early breeders, and three of his are still prominent as commercial sorts to-day. Flesh pink AMERICA, deeper pink PANAMA, and pale yellow NIAGARA, flaked rose pink, have been literally grown by the millions, and are known all over the world wherever there are Gladiolus. They have not the length of spike nor extreme size of some of the newer sorts, but are still standards of comparison by which many of the newer sorts may be judged and found wanting for florists' and commercial use.

H. H. Groff of Simcoe, Ontario, has done much to advance the Gladiolus and has produced notably fine reds. He has aimed at sturdiness and adaptability in his varieties, and toward substance in his flowers, rather than toward extreme floriferousness, and he attributes the good substance of his varieties to the foundation stock of the Burbank Gandavensis strain, developed to withstand the withering heat of the California valley summer. Blood-red WAR and DOMINION (syn. Red Emperor) are both sturdy and handsome sorts. MAJESTIC is still another fine red. His PEACE is a vigorous, late-blooming white, introduced in 1899, and still in its prime. LA LUNA is white with a crimson blotch; AFTERGLOW, salmon fawn; BLUE JAY, lobelia blue, with a yellow-bordered deep violet blotch, small but of pretty color; DAWN is a pretty salmon pink. All of these have fine substance, vigor, and adaptability.

Groff has retired and turned his Gladiolus breeding material over to Cowee, of Berlin, New York, and Crow, of Simcoe, Groff's home town. Cowee has recently introduced SCARLET WONDER, by many considered the very best red; and Crow has just brought out Groff's GOLDEN DREAM, a deep yellow which is as yet too little known to judge of its merit. But we may reasonably expect much of it, with the background of Groff's long record of accomplishment.

The flesh pink America grown by the million and popular all over the world (Banning)

Among the very earliest workers with the Gladiolus in this country was Dr. Walter Van Fleet, who is perhaps better known to the world for his Chestnuts and Roses. He made many Gladiolus crosses, particularly with the wild species as parents, and produced some interesting and remarkable seedlings. Very few of these were introduced, for he held to a very high standard of excellence for his introductions, an example which most of the present-day Gladiolus breeders might heed with profit. His outstanding contribution is PRINCEPS, reared in 1893 from G. cruentus—the large, wide open, round-flowered blood red Gladiolus species—crossed with one of the Childsi varieties. Its very large brilliant scarlet blossom with conspicuous white throat has the form of the flower of the species, and is a truly striking flower to-day, in any company. The variety also has remarkable vitality, and has developed none of the constitutional weaknesses which have characterized many of the largest flowered kinds both in this country and abroad. Despite its hesitant opening of the blooms, only two being open at once, it has been used successfully by breeders in developing many new varieties. Van Fleet also used G. primulinus for crossing when it was first introduced, and learned more about its possibilities in breeding with other Gladiolus than anyone since his time. His SUNBEAM, a clear light yellow Primulinus hybrid with the usual hooded bloom and slender, open habit of its race, is the offspring of a cross between Sulphur Queen and G. primulinus. Of his many other seedlings, MASTODON, a vermilion seedling from Princeps, and his Autumn Giants, offspring of Princeps and the late-flowering red species, G. quartinianus, were startling flowers in their day. His scientific studies with the species revealed some interesting things about their behavior in breeding, and would well repay careful study, even at this late date.

IT IS sometimes difficult to trace clearly the effect of one man's work in inspiring others. The fine contributions of J. A. Kemp to the Gladiolus world are clearly a direct result of Dr. Van Fleet's stimulating influence. Kemp first met Dr. Van Fleet when in 1897 the Doctor went to Tennessee, taking with him several thousand Gladiolus bulbs. The beauty of their flowers and the enthusiasm of Dr. Van Fleet fired Mr. Kemp with a desire to take up the growing of Gladiolus and to become a breeder. Accordingly he joined Dr. Van Fleet at Little Silver, N. J., in the spring of 1900, and spent three years working with him.

At that time there were no good dependable pure white, all of them having poor and weak constitutions. Seeing Dr. Van Fleet's fine results from crossing Princeps with the Childsi and other strains, Mr. Kemp undertook to develop vigorous pure whites from crosses with Princeps. About 1901 he began by crossing it with a white Gandavensis hybrid from Europe, and first produced a lavender-pink seedling, MRS. JOHN TURNBULL. This he again crossed with another white, and secured seedlings of all colors, but no whites.

By continuous breeding of the palest of the resulting seedlings among themselves, he finally succeeded, after nine years of effort, in producing some pure whites. ALBANIA, WHITE WONDER, and EARLY SNOWFLAKE were derived from this stock. These were apparently not all from the same cross. Mr. Kemp states that Albania was descended from Europa; Early Snowflake from Giant White, from which it may have gotten its rather long, slender petals; and that White Wonder gets its fine petal substance from Mrs. Francis King. These were introduced in 1921, twenty years after he first started his breeding work, with Dr. Van Fleet. Not only was he successful in his main aim of producing good whites; but his most outstanding introduction, PINK WONDER, the flowers of which are of a delicate soft pink, of fine form and enormous size, is also a result of this same line breeding. Pink Wonder is essentially a show variety, and the new lavender JUBILEE, which Kemp values as his best, is similar; while Albania and White Wonder belong in the commercial class. Kemp has used others of Dr. Van Fleet's hybrids besides Princeps for his breeding work, and has some fine Primulinus seedlings from Sunbeam. One of his latest introductions, RUFFOLACE is of a new fancy type. It is pure white and very prettily frilled and lacinated, the best of these notched petaled varieties yet introduced.

Leonard Joerg is another of the pioneer growers of Gladiolus in this country. He was grower and breeder for the Hallocks of the Childsi strain of Gladiolus when these were first brought from Europe, and he and his son, Geo. J. Joerg, have maintained an interest in the flower ever since. In 1922 he startled the Gladiolus growers and breeders by exhibiting a prize-winning show variety of his own, of fine size, substance, and form. This JOERG'S WHITE is a product of a fortunate cross between two of Pfitzer's varieties, Die Kaiserin and Fraulein Betty Keuschler. It has large, lily-shaped, wide-open flowers well spaced on a strong, erect stem. The petals are rather long, with broadly rounded ends. They are all pure white, except the lowermost, inside petal, which has a blotch of creamy yellow with crimson veinings. The flower, being of the one-spot type, with the upper petal, outside of the two lateral ones and with only one lower blotched petal, opens to a much rounder bloom than do most Gladiolus, and all of the petals are of about one size. Thus it is quite regular in form. Joerg's White is a distinctive novelty and clearly represents the ideal flower of its introducer, so that we may confidently look forward to other show varieties of this same form from this Long Island grower. Other fine things of Joerg's introduction are JOERG'S WHITE PRIM, JOERG'S YELLOW PRIM and GEO. J. JOERG, a pretty salmon-pink.

LEAVING the Long Island and New Jersey pioneer center of Gladiolus activities, let us look in upon the work of the New England growers. There are probably more Gladiolus growers and enthusiasts per square mile in and around Boston than anywhere else in the United States. Of these none has applied himself more ardently to its culture and improvement than Eugene N. Fischer. One might even assume that he had inherited this interest. His father, Wm. N. Fischer, who was landscape gardener in Central Park, New York, and later in the Boston Park Department under Frederick Law Olmstead, was likewise an admirer of Gladiolus, and had a collection of several thousand, mostly seedlings of his own. From about 1890 on, Eugene Fischer had charge of his father's collection, and from selected ones of these he started his own strain.

As a result of his studies of art both in this country and abroad Mr. Fischer is particularly well qualified to select among his seedlings those that are the most perfect in form and color. He is constantly collecting the best new varieties from all sources and some of Lemoine's recent introductions are among his favorites for hybridizing. He is a careful worker and always makes his crosses with some definite aim in view. A painter as well as a breeder of flowers, he has made a series of one hundred and fifty colored pictures, in which he traces the history of the Gladiolus from the earliest known wild species of Africa up to the present day. Both his pictures and his flower creations can be relied upon for their fine form and coloring. He has worked particularly with the large-flowered Amaryllis type, derived from the variety Princeps, and with the Primulinus hybrids, among which he has been successful in bringing out some beautiful tones of yellow, buff, orange, and pink.

Among the large-flowered sorts, his MRS. F. C. PETERS is a handsome show flower, rosy lilac with a crimson blotch. His other varieties are mainly of the general purpose, commercial type of flower. SOPHIE FISCHER is a large pink of good substance. HENRY C. GOEHL is a grandchild of Princeps. It has the large, rounded, wide-open flower and broad firm petals of that variety, but the color is white, slightly blushed pink, with a deep crimson blotch. This is the outcome of another effort, like Kemp's, to breed a pure white Princeps, and the result is a truly handsome flower, though not white. Two other sorts which show probable relationship to Princeps, in their form at least, are MRS. WM. E. CLARK, a delicate shell pink with

(Continued on page 574)

Jubilee, lavender, one of the progressive steps in the effort to produce a white out of the red Princeps (Kemp)

Nezinscott, a typical old Childsi variety

Joerg's White, a remarkable variety with well-rounded flowers of large size and equal petals (Joerg)

Averting an Iris Tragedy

When the European Corn Borer Came to our Garden

Norma H. Smith

THE tragedy had its beginning in a grouping of the oldest Iris in my garden, the blooms of medium size, with iridescent maroon falls and pinkish lavender standards, blooming on tall stalks with the pink Roses.

In the spring of 1922, however, I noticed fewer Iris in this bed and many fewer blossoms at blooming time. All my previous experience had been larger and larger clumps, but with less bloom, as a result of the too crowded root growth.

On July 27th (I am giving exact dates to show the size of the borer at different times of the year) I began the thinning out of this bed. As the plants were dug I began pulling the rhizomes apart, and to my dismay a large worm fell out of a clump of roots—then another, and another! These worms, entirely new to me, looked like a small animated edition of a rhizome. Surprise, disappointment and resentment surged through me, as more and more of these worms fell out of each clump of Iris. I began to realize that something new and sinister had entered my garden.

I couldn't tolerate the thought that they might even now be in my other Iris that had bloomed freely that spring when this particular group showed scant bloom. By the next day I had found that scattered clumps throughout the garden were also infested. The only Iris being free was a group imported from England, three years previously, and which had had especial care.

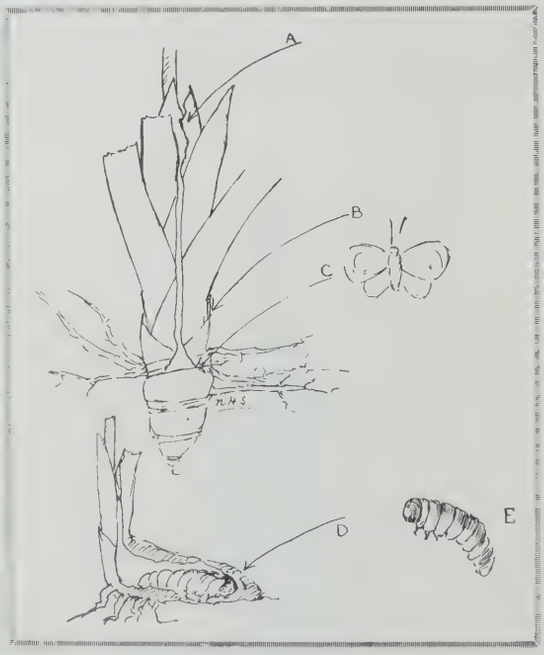
What at first seemed the irony of fate, but later proved to be intelligent assistance was that a Federal Horticultural Board inspector came that afternoon to inspect my importations, as had been done each year for two previous years. The English stock being given a clean bill of health and the quarantine restrictions lifted, I ventured to ask if he had heard of a borer which attacked the Iris roots. Yes, but he had never seen one; it was a new pest, and to be dreaded. Could he identify them? And by that time we had reached the lower garden where the infected Iris lay, and the story was soon told.

As each plant was dug, I divided the rhizomes and killed each worm that hid inside. I soon discovered that the clumps with the fewest leaves had the most borers inside the rhizomes. If the outside of the root was soft, then the inside of the root either held the borer or it had been entirely eaten away, and the borer was hiding in another rhizome. As I was working with an unknown quantity, I could only dig and kill as rapidly as possible. As I worked with the Iris each day I discovered that a clump of plants which would be free from the borer today, on the next might have a full grown borer attacking it on the top of the rhizome at the base of the leaves, having crawled on top of the ground, from another clump, without the formality of entering by the leaves, higher up, as they do when they are first hatched.

THIS European corn-borer as it is called is known to entomologists as Macronoctua onusta (Grt.). Specimens of this boring caterpillar first received attention in New York in July 1911, having been sent to the State Department of Agriculture from Saratoga.

After the borer has matured during the first or second week in September (and incidentally having eaten all one's Iris) it is about two inches long, of a brownish white color, the head brown with rows of black spots laterally. At maturity the borer leaves the Iris roots and disappears into the ground in the form of a chrysalis. A careful search revealed several of these, which are about one and one quarter inches long, and a quarter-inch in diameter; they are chestnut brown, hard and shiny. They remain in the ground until the latter part of September, or first of October, when they reappear in the form of a moth.

This moth is a typical noctuid, both in form and color. It has a wing spread of about two inches, is of a purplish brown color, with the hind wings a yellowish brown. I have never seen this moth in the garden to identifiy it, as the noctuids (night flyers) are seldom seen on the wing. The moth lives about two weeks, long enough to deposit its eggs around the base of the Iris stalks, and in between the edges of the overlapping leaves. The eggs remain during the fall and winter and hatch the following May. In my locality, southern Ohio, I find the eggs hatch about the middle of April.



THE EUROPEAN CORN-BORER

A, where the borer enters the leaves; B, where the moth lays its eggs; C, borer entering the rhizome; D, borer in the rhizome; E, the borer itself

As the larvae or borers are hatched they are worms of a whitish green color, with a brown head, much larger than the body. The smallest I have found were about a quarter of an inch long, and were eating the tender leaves of the Iris. They enter a group of leaves in the center, where the leaves are the most tender, about ten or twelve inches above the ground. The worm eats downward, inside the folds of the leaves, and finally enters the rhizome in the very center of a group of leaves, where it grows rapidly.

The last Iris clumps were dug during the first week in September, and all had been badly eaten by the borers. In many clumps only the shells of the rhizomes remained, the entire fleshy part having been devoured. I found very few borers at this time, most of them having fully matured, and disappeared into the ground in the chrysalis form.

THE reports from my specimens which the inspector had taken with him arrived most opportunely, just when I could rest from my labor of digging, and contemplate the task of replanting and regrouping the mutilated roots, Three years later, I now feel well acquainted with this caterpillar, in its various molts and evil ways, as I have personally seen it grow from the tiny worm in the early spring to the adult in the fall.

If I discover a ragged brownish edge on an Iris leaf, I know a borer has entered at that place, and that I will find it a few inches lower down, between the folds of the leaves. If I have been fortunate enough to discover it in time, it is easily destroyed by cutting the leaves away, and always cutting through the wormlings. If it has eaten its way as far down as the rhizome it is much harder to find, and part of the rhizome must be sacrificed in locating it.

To eliminate these borers our horticultural department suggests cutting away the dead leaves of the Iris in the fall and burning them, or to burn over the leaves in the Iris beds if this can be done without injury to the roots.

In the spring I spray with a solution of arsenate of lead, ten level teaspoonfuls to one gallon of water. The season after these borers made their appearance I found only a few on scattered clumps of the Iris and I am hoping to find even less this year.

The borer attacks all varieties of Iris in my garden, even the versicolor, which have such small, hard rhizomes. The Blackberry-lily and the German-lily are also said to be "hosts."

Beginnings of Peony Culture

Paul B. Sanders

Kelways Glorious—an outstanding Peony, creamy white with rose flush, and fragrant

WITH one possible exception Peonies are the least troublesome of all our perennials. Their requirements, on the whole, are few and are easily supplied. The only objections the most particular of gardeners could raise against Peonies are two: (1) The blooms are so large and heavy that supports are frequently necessary, and (2) the plants increase very slowly. To offset these very minor faults, if such they can be called, the Peony renders itself adaptable to use for both cutting and landscape art; is comparatively free from attacks by insects and disease; is hardy and, therefore, permanent.

Peonies can use more food than any other perennial. They like a rich loam; If he who desires to cultivate this wondrous flower does not possess soil he considers sufficiently rich he can secure it by replacing the subsoil of his prospective Peony patch with a mixture consisting of one part compost to nine parts of good soil; top soil will do. If this method appears to be too cumbersome, well-rotted barnyard manure could be dug in and thoroughly mixed with the soil already present. And mix the manure and soil thoroughly, because one of the surest means of killing young Peony roots is to permit them to come in contact with manure. This work is best done from two to three months in advance of planting time.

Plant the roots so that the uppermost eye, or bud, is not more than three inches and not less than two inches below the soil surface. Deeper planting results in a bloom-less, or blind, plant; while shallower planting frequently allows the roots to heave out of the ground during the spring following their planting. It is wise to wait until the second or third week in September before setting out the new roots, and they may be planted as late as the middle of October, though with late planting the plants may not become settled before the hard frosts set in, and are more easily heaved in the succeeding spring.

To maintain the Peony bed dig in a heavy application of well-rotted barnyard manure as soon as possible after the snow is gone. If this application is delayed until after the root growth has well started a check to the growth of the plants may result, with resultant weakening of the plants and the production of fewer and poorer blooms.

If the Peonies are grown where they will have plenty of sunshine and free air circulation, insects and diseases will do them very little harm. Plant them three and a half feet each way and satisfactory circulation is bound to result. Peonies will do well in partial shade, but do not appreciate confinement or much shade, and do their best where they obtain a maximum of sunshine.

Lightly cultivate the Peony bed weekly until the flower buds form. This will aid in retaining the natural soil moisture and help in the control of weeds. Ordinarily, Peonies do not require watering, but if there is a continued drought they will greatly appreciate a thorough soaking once a week until the dry spell is over. When watering Peonies, try to keep the foliage and buds dry, and literally soak the ground around the plants.

Commercially, Peony roots are divided every second, or, at most, every third, year. By this system of propagation greater supplies of stock are available, and this is the ultimate object of the nurserymen. However, the amateur gardener is desirous of securing bloom, and quantities of it, and so he does not divide his plants more frequently than once in seven or eight years. Peonies should bloom at their best in their fourth and fifth year after planting. Frequent divisions tend to result in weaker plants which will produce few blooms, while on the other hand, if the dividing is left too long successful propagation will be difficult because of the dense mass of roots formed by the robust plants.

Some amateurs advocate root divisions once in every ten or twelve years, but I consider that too long a time to wait; seven or eight years is quite long enough. Propagate in the fall and transplant, if at all possible, to a patch of ground which preferably has never before harbored Peonies, to check the spread of disease (for the Peony is afflicted with a few ailments, and prevention is better than cure). Peonies are so greedy that they rob a soil of the major portion of its nutrients, and that soil should be rebuilt before it is used again by such a heavy feeding crop.

To discuss varieties of Peonies is to enter an unceasing conversation; Peonies there are, practically, without end. In any event, there are to-day thousands of named varieties, ranging in price from fifty cents to fifty dollars. I am indeed sorry that space does not permit the inclusion of all the good varieties, but to do that would necessitate the publishing of a book, and those who are keenly interested should become acquainted with the *Bulletins* of the American Peony Society.

SOME FAVORITE VARIETIES

Festiva Maxima is probably the best known of all the varieties. It was produced as long ago as 1851, by Miellez, and is still grown wherever there is a peony garden. It bears large ivory white blooms, flecked with little crimson areas, and is one of the earliest of the P. albiflora class.

Another early variety in this class, and one worthy of a good position in any garden is Duchesse de Nemours, a cup shaped white variety with a fleeting green tinge which eludes all search, but which is ever present, and which only makes the blooms more entrancing.

The ever lovely Mons. Jules Elie has large pink blooms, and stout growth. This old variety (produced by Crousse in 1888) was, possibly, more admired during the season of 1925 than any other Peony.

Among the older varieties that are still worth while we find, Adolphe Rousseau, garnet; Albert Crousse, shellpink; Avalanche (which is the same as Albatre) ivory white, edged crimson; Couronne d' Or, pure white; Felix Crousse, red; Grandiflora (Richardson), pale pink fading to white; La Perle, blush white; Le Printemps, a very early creamy yellow single; Mme. Emile Galle, shell-pink; Mme. Geissler, a beautiful pink variety; Marguerite Gerard, flesh pink fading to white; Mons. Martin Cahuzac, dark red; Philomele, pink and yellow; Raphael, an early red; Reine Hortense, flesh pink with minute crimson splashes in the center; Rosa Bonheur, soft pink to rose; Rubens, red; Rubra Superba, a very late dark crimson which is excellent for cutting; Therese, shell pink and Walter Faxon, bright rose. All of these varieties are included among the older productions, none of them having been introduced during the present century, but every one of them is a valuable asset to any garden.

Some of the varieties placed on the market during the last twenty-five years include: Alsace-Lorraine, creamy white shaded yellow; Aurore, milky-white; Frances Shaylor, cream; Frances Willard, white; Germaine Bigot, cameo pink; James Kelway, white; Jessie Shaylor, deep cream; Karl Rosenfield, dark crimson; Le Cygne, a very beautiful milk-white variety, and nearly as

(*Continued on page 574*)

Pieces of Silver

Silver Plate That Brings to the Modern Dining Table a Note of Elegance and Good Taste

Ellen D. Wangner

Photographs by courtesy of International Silver Co., Oneida Community, Ltd., Reed & Barton, The Gorham Co., R. Wallace & Sons Mfg. Co., Holmes & Edwards

THE modern home, like good silver, is developing a hallmark all its own—that of honesty. There is a growing simplicity of furnishing, a genuineness that precludes any ostentation or false imitation. Nowhere is this more apparent than in the dining-room. Here genuine hospitality not only finds its greatest proof but also its truest expression in the simplicity of the setting of the dining table, in the food and service based on a knowledge of what is well-chosen and suitable. The home-maker is not hidebound by convention in this. One rule only does she rigidly adhere to and that is the matter of the silver used—to be correct, her table must have all the necessary silver for each service! This is an unwritten law and her honesty is expressed by silver fitted to her position and means. The beauty and value of plated silver meets this need in honest fashion.

Restrained in both design and decoration is this beautiful silver service. The odd feet of the raised tray continue the shape of the bases of urn and compote while the handles of the coffee service, sauce boat and vegetable dish have the same line as the flat ware

In buying plated silver, there is one unvaryingly safe guide to quality and that is the name and reputation of the manufacturer. The leading silversmiths of today, those who are producing the finest pieces of sterling silver are, in most cases, also making plated silver of equally good design and the same careful workmanship. Moreover, they are stamping their names on this silver plate so that every purchaser may know just what stands back of each piece

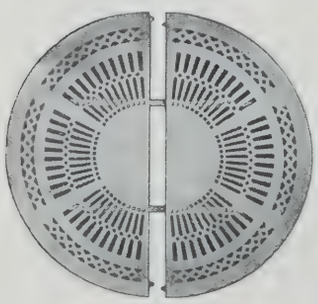
THE process of making plated silver is a most interesting one. The article to be plated is first formed from some special metal (either nickel silver or white metal), into its permanent shape. The silver deposited on this metal base is absolutely pure, purer in fact than that of solid silver, since sterling ware must contain an alloy to make it workable and of sufficient hardness to prevent bending when completed, whereas this necessary firmness in plated ware is supplied by the metal base and the silver deposited on it is. 999 pure; that of sterling silver being .925.

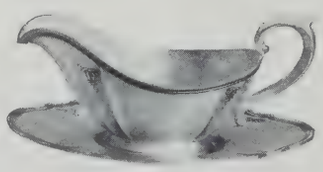
There are several grades—double, triple and quadruple plate, according to the heaviness of the silver plating. The wearing quality of good plate does not, however, wholly depend on the amount of evenly deposited silver on its surface. There are certain places in various articles where the greatest wear comes, as on the bowls and handles of spoons, tines of forks, etc. In a cheap, unnamed grade of plate, the silver is apt to wear through at these points, whereas in the heavy, reliable plate all leading silversmiths add extra plating at these points, sometimes even inlaying heavy blocks of silver, blocks that are 20 percent thicker than the plating itself. Because they are *blocks* of silver and not mere layers they will last a lifetime and several lifetimes. This is actually inlaid silver plate, precluding any possibility of signs of wear. For many years, the fact that plated silver did wear through, put it out of the class of good table furnishings. To-day that can no longer be said of it and plated silver has taken its place on the well-laid table. No longer is it an imitation but a standardized product of genuine worth.

THE story of the making of silver utensils carries us back to the beginning of history itself for silversmithing is one of the oldest of the arts. This branch of it, silver-plating (which means the combining of two separate metals by covering a base metal with a valuable one), was also known to the ancients. In England the art was evidently not only known but turned to dishonest purpose for it appears that unscrupulous merchants silvered and gilded various baser articles and sold them as real silver and gold. To such an extent was this done that in 1403 an Act of Parliament was passed forbidding such imitation in the following quaint wording:—

"Whereas many fraudulent Artificers, imagining to deceive the Common People, do daily make Locks, Rings, Beads, Candlesticks, Hilts, Chalices, Powder-boxes and covers for Cups of Copper and Latten (tin) and the same overgilt or silvered like to Silver and Gold and the same sell and put in gage to many men not having knowledge therof for whole Gold and whole Silver to the great Deceit, Loss and Hindrance of the Common People and the wasting of Gold and Silver;

"It is ordained that no Artificer nor other man





Good design and craftsmanship mark each of these small pieces that play so important a part in the satisfying silver equipment

The sturdy simplicity of this tea set makes it suitable alike for the home table or the more formal afternoon tea

Clearly showing its Grecian ancestry in shape and decoration, is this graceful coffee service in silver plate

whosoever he be from henceforth shall gilt nor silver any such Locks, Rings, Beads (etc., etc.) upon Pain to forfeit to the King's C's at every time he shall be found guilty and to make satisfaction to the Party grieved for his damages."

The delicately-shaped flower bowl with its graceful handles and the tall candles without shades make a distinctive addition to one's dining room grouped as above or to the living room when used as individual pieces

Such gilding and silvering was, of course, not plating as we know it and it was not until 1742 that the real art and value of actually plating an article with pure silver was discovered in England. Here, so the story goes, a silversmith in repairing a thin layer of silver on the copper handle of a knife, thought of combining layers of silver and copper into a material ready to be turned into any article desired. For years this was done, giving us Sheffield Plate which was of such worth that it was permitted to have its own marks as did sterling ware.

There has always been romance in the working of silver, no matter whether plated or solid, but perhaps there is nothing more interesting than the derivation of the word "sterling" as applied to solid silver. Back in the year 1216 when John was King of England, there was a band of merchants in Flanders who began to trade with the English. The money they gave in exchange for goods was much better than that of the English traders. This was soon brought to the attention of the King, who finding that these men of Flanders minted their own money, asked their aid in making all English money of the same high quality as theirs. Because these merchants from these eastern cities were known as "easterlings," this name very quickly became attached to this quality of silver, being corrupted finally into the now well-known word "sterling."

Like the merchants in Flanders and in the cities of the Hanseatic League, the English silversmiths formed guilds of their own. A silver guild-hall was established where each piece of silver had to be sent to be examined and weighed before it could have the mark of this hall stamped upon it; hence the word "hall-mark" so commonly used today.

It was in the early days of the 19th Century that the process of plating by means of electricity was discovered and this new method brought to its highest and best by American silversmiths. By plating in this way the article received the exact amount of silver desired. No longer were we to have the inequalities and seams of the old plated ware but instead, dining-table accessories and other pieces of silver equipment made of a very fine base metal on which pure silver had been deposited. So carefully is this work done to-day that a single teaspoon passes through more than 30 operations from the time it is first cut out from a sheet of nickel-silver until it is sold in its velvet-lined case!

The thickness of the layer of silver deposited by this electric process is not, however, the only key to quality. The plating must be hard as well as thick and it is the skill used in buffing and burnishing the article that insures its long life. When the plated article comes from its bath of silver, this new plating is snow-white and is comparatively porous. These pores must be closed by burnishing and this is done by skilled artisans using machines very accurately adjusted to trim all the very fine edges of the silver, close the pores and make it hard and compact. After this, the buffing gives it the desired finish.

Much of this work is done by hand and it is an evidence of the high quality of modern plated ware that in this era of machinery there is still need of the painstaking handwork of the craftsman.

The best silver plate to-day has no time limit on its guarantee of service; still other plate is guaranteed for fifty years to show no sign of wear. This, with its comparatively low cost and its good design and finish, either bright,

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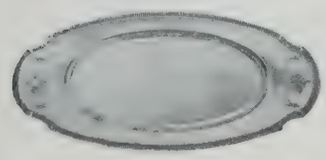
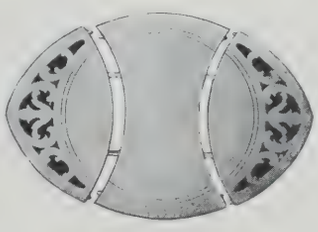
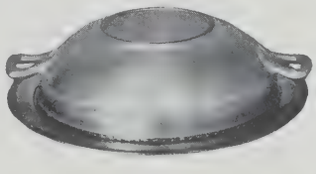
Hidden beneath the plated surface is the quality that makes each piece an addition to the well-laid table. The pierced extension trivets are especially pleasing







So You're Getting an Oil Burner

P. E. Fansler

Associate Editor, *Heating and Ventilating Magazine;* Secretary of Public Relations, American Society of Heating and Ventilating Engineers

House heating is one of the moot questions of the day and householders everywhere will be glad of this plain statement of fact from competent authority. Mr. Fansler is thoroughly conversant with the field and keenly aware too of the difficulty of the average man in ascertaining the truth about the multitude of burners—good, bad, and indifferent—being thrust upon his notice. The G. & H. B. will gladly respond to any reader's request for further light on this important subject.

HEATING homes with oil is not exactly new—it dates back nearly twenty-five years—but only in the last six or seven years, since the advent of the "completely automatic" burner, has this method of heating become really practical. If you are one of the many home owners weighing the question of installing an oil burner you will want certain questions answered.

(1) *Is it safe to have an oil burner installed in the home?*

It is, with only the qualification that you select a burner that has been "listed" by the Underwriters Laboratories, and have it properly installed by a representative of the manufacturer. Those who collect and analyze the reports of fires throughout the United States tell me that the number of fires resulting from oil burners is so small that the risk may be considered even less than that attending coal-fired heating plants.

The greatest risk comes from leaky piping between the oil-storage tank and the burner. If a competent mechanic puts in the burner, is careful in cutting the threads on the pipe and in setting up the joints, you will have a tight job. Another risk comes from not making a careful examination of the heating plant, particularly the smoke-pipe and the chimney, to see that they are clean and have no stoppage. Bricks falling down the chimney, lodging together, restricting the draft and finally, through the accumulation of soot at this point, entirely choking off the draft, surely mean trouble.

(2) *What will an oil burner cost?*

That depends, of course, upon: the size of your house; where it is; how big a storage tank you need; and many other minor factors. For small houses, four to seven rooms, thousands of "atmospheric" or wrongly called "gravity" burners have been sold. Many of these are not fit to be sold, or even given away, but, on the other hand, burners of this type have been developed to a very high degree of efficiency and reliability. Atmospheric burners are those that do not require fans or blowers to provide the necessary air for combustion, but depend upon the natural draft of the chimney.

Atmospheric burners, usually installed in comparatively small homes, are generally supplied with 275 gallon oil-storage tanks—the largest allowed by the Underwriters for installation in the cellar above the floor line. Such an installation may cost from $100 to $250. As a usual thing there are no moving parts, and therefore little to wear out or get out of order. On the other hand, the efficiency at best is seldom up to the average of the mechanical draft burner, and only the higher gravity, more expensive fuels may be burned.

Mechanical draft burners may be divided roughly into two price classes, one about $300 to $500, where 275 gallon tanks are figured in the equipment, and the other from $700 to $1000, where the burners are of a highly developed type, built of the best materials (as a fine automobile engine is built), and installed with storage tanks from 1,000 to 1,500 gallons capacity, according to location. Such machines may really be considered in the light of an investment for home comfort, and should last as long as the heating plant, or until much more efficient machines are developed. A machine of this class, if properly cared for, should furnish "heating comfort" year after year, with almost no wear.

(3) *How does the cost of oil heating compare with coal?*

No correct answer can ever be given to this question, for the simple reason that, with any of the fluid fuels, oil, gas, electricity or district steam, you get a result that you cannot possibly get with coal. The oil burner salesman will talk to you about "heating comfort," and that is really what he is selling you, not a piece of machinery. You are paying for the result. So no statement that "one hundred and fifty gallons of oil equals a ton of coal," or any other similar one, can be correct. In most cases, where a home has been heated with ten tons of coal, or less, no economy can be expected through the use of oil. Where the consumption of coal is 15–18 tons, there is about an even chance of oil costing more or less than coal, depending, largely, upon how inefficiently the boiler has been fired with coal. In larger homes, oil almost always costs less than coal, although, of course, much depends upon the relative costs.

Some very foolish arguments have been presented by those in the coal business, in attempting to stem the tide of oil burner sales, trying to show that 150 to 200 gallons of oil is required to equal a ton of coal. The analysis always gives the "heat contents" of coal in "heat units," B. T. U., and then divides that quantity by the "heat units" in a gallon of oil, to get the number of gallons "equal to a ton of coal."

No such comparison is possible, for many reasons. In the first place, in the boiler or furnace you have in your home, oil probably can be burned at an efficiency at least 10 per cent. higher than coal can be burned, *at full load*. But you only operate your heating plant at full load for a small portion of the heating season. During the spring and fall there are periods where the efficiency with oil may be more than twice that with coal.

(4) *How noisy is an oil burner?*

The answer is: "Just as noisy as an automobile." You are familiar with the noisy little cars, and you may have paused to glance at a Rolls Royce passing noiselessly by, with not even a purr from the exhaust! So you will find burners that are noisy, and those that are not—and all degrees between.

I have seen installations where the burner actually caused unbearable noise in the house. I have tested, in my own home, a burner so quiet that, with your ear against the boiler shell, you could not tell if it were running or not. My suggestion is that, before seriously considering any burner, you visit at least four or five installations where that particular burner is in operation and see and listen for yourself.

And now I want to tell you what an oil burner is. It is a gas-making machine, pure and simple. Oil sold for domestic fuel will not burn in the liquid state. Half fill a pail with this fuel, and not a drop of liquid will combine with oxygen to produce heat, which is the commonly accepted form of combustion. Nor will this oil burn if it is "atomized" or "triple atomized" or maltreated in any of the curious ways that the catalogs tell you about.

Oil will not burn in the liquid state, no matter how finely divided, but only when it has been heated and turned into a gas. There is no *necessity* for breaking the oil up into minute particles prior to combustion; it is not essential to have refractories in the form of fire brick around the flame; notwithstanding claims to this effect. The atomizing of fuel is a useful step toward gasification in some burners, but is not used in others. It is not essential to have a fire-pot or combustion chamber lined with fire brick, although in many types of burner such a feature is used to maintain the necessary temperatures to provide for efficient gasification.

So we find many burners of different types, but each one has the same end, the production, when wanted and in the proper amount, of hydrocarbon *gas* from the liquid fuel. As a correlated function, the burner must provide for the proper mixture of this gas with the correct amount of air, and for the combustion to take place under favorable conditions.

Burners may be classed as "continuous" or "intermittant." Those in the first group burn continuously, and may be turned up or down just as you handle your gas or oil stove. The second group is a development of the last six or seven years, and provides for operation at a fixed rate or load, whenever the house is cold enough to require heat. These burners are controlled by a thermostat, usually installed on a wall of the living-room. This type of burner is fired up whenever the room tempera-

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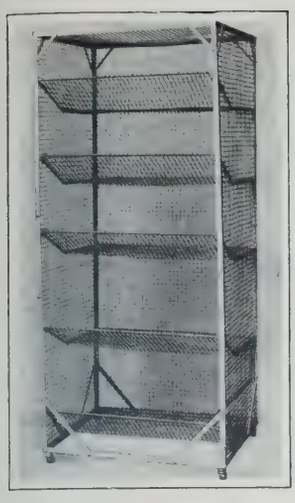
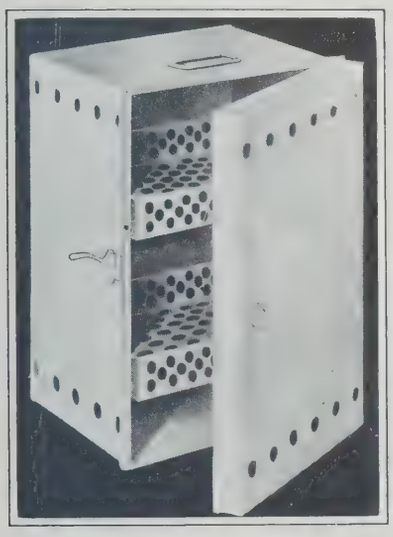
Summer Comforts for the Housewife



Storage rack where fruit and vegetables may be spread out and kept fresh and sound

Photographs by courtesy of Conlon Corp., Lewis & Conger, The Household Utilities Bureau, Inc., Syracuse Washing Machine Co., Graybar Electric Co., Edwin A. Jackson & Bro., The Prometheus Electric Corp

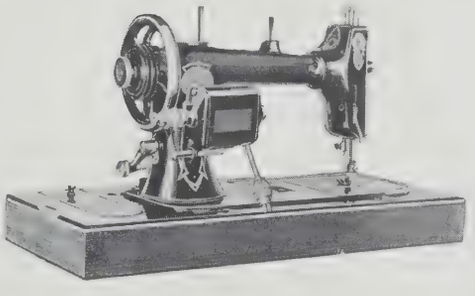
Placed on the top shelf of any refrigerator this small can will take and keep all odors



Well ventilated with air holes at top and bottom is this vegetable storage box small enough to stand under kitchen table or pantry shelf

Not only is this ironer fitted for either gas or electricity but when closed becomes a kitchen table with porcelain top

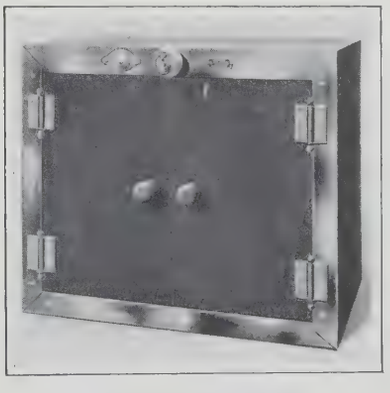
Where ice box space is limited vegetables may be kept fresh and crisp in this white enameled perforated box



The modern "song of the shirt" finds a new accompaniment in this electric sewing machine that eliminates all labor

With small cover worked by foot-trip this underground garbage receiver solves the garbage question

Of the utmost simplicity and convenience in operation is this electric washer with attached aluminum wringer



An electric plate warmer that warms either dishes or food

AMONG OUR FRIENDLY NEIGHBORS

Readers' Open Column for Exchange of Comment and Experience

Some Flowers of Yesteryear

TO THE EDITORS:

If the garden neighbor who asks for "the flowers of yesteryear" in the May issue has not yet seen the catalogs where these flowers are offered this year she has much pleasure in store.

As I, too, prefer the old-fashioned grandiflora Sweet-peas I have bought them for many years from Henry A. Dreer. Many dealers who used to list this type have omitted them from their catalogs this year, but they are offered by at least two other firms: R. &. J. Farquhar's Columbian mixture, and Joseph Breck Sons' Boston Mixture. The old-fashioned Roses Baltimore Belle, Bon Silene, Cornelia Cook, Safrano, and La France, are all offered in this year's catalog of Dingee & Conard.

I began raising Delphiniums from English seed (Thompson & Morgan) several years ago, as an experiment. I had read that good seed was expensive in America and that the plants were quite difficult to raise from seed. Delphinium seed in fine named varieties and in separate colors was offered at 3d, 4d and 6d. The seed germinated quickly and I had some strong plants to set out the first autumn. They bloomed the next year and were most satisfactory. They were raised from seed saved from the finest light blue varieties only, which I happen to prefer, but they may be had in many other colors and types as well as the named varieties. I have bought them and raised other plants every year since then.

It may be of interest to other garden neighbors to know that the often difficult-to-raise Bleeding-heart will grow luxuriantly with the protection of a rock, or wall, behind it, and not planted deeply. I had planted and lost dozens of them before I learned that they should be planted about as deeply as Peonies.

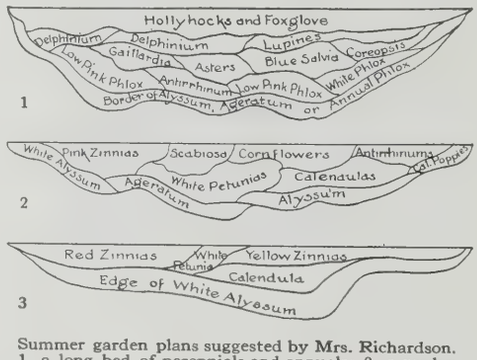
Also Iris Catherina which is said not to be hardy in the East seems to be growing well in the shelter of a rock with a light mulch of leaves. It was planted last autumn and the weather conditions of last winter and the late spring of this year would seem to be specially unfavorable for many quite hardy plants, but this Iris looks as thrifty as any in the garden. —MRS. P. B. HOWARD, *South Lincoln, Mass.*

A Summer Cottage Garden

TO THE EDITORS:

Are you one of the summer migrating army who leaves town in early July for a cottage by the sea or in the mountains? Even so, you need not despair of having a garden! Not, perhaps, a great splendid one, but at least a few flowers to take away the bare, uninteresting look from the grounds around your rented or owned cottage, and to cut and trim the house. An owned cottage is easier to provide with a garden than a rented one, of course, for you can plant perennials that blossom in midsummer, and have your background there year after year. But even if you rent the place a garden is quite possible.

It will help a great deal to have some one prepare your garden plot before you get there, digging in sheep manure or fertilizer; then you can get to work immediately upon your arrival. Better still, you can have planted



Summer garden plans suggested by Mrs. Richardson. 1, a long bed of perennials and annuals; 2, a garden of annuals; and, 3, a red, yellow and white garden

seeds in May or June, and can take the seedlings with you to set out in your garden plot beside the summer cottage. If you haven't planted seeds, you can always find someone who has. Nearly every village boasts a nursery or is within driving distance of one. Get Annual Phlox, Sweet Rocket, Ageratum, Antirrhinum, Cornflower, Zinnia, Alyssum and Calendula, and set them out as soon as possible. Be careful to have your colors harmonize. The accompanying plan will give you a hint of a possible garden. Add Gladiolus and a few quickly germinating seeds such as Annual Lupine, Petunia, Dwarf French Marigold, and Nasturtium.

Start this summer to plan a hardy garden for next year and the future. In a well raked seed bed plant seed of Hollyhock, Foxglove, Delphinium, Gaillardia, Calliopsis, Lupine, Aquilegia, blue Salvia, hardy Asters, etc. In September transplant the seedlings to their permanent positions, adding, from the florist's, Phlox, Mallow, Japanese Iris, and some Lily bulbs. With these as a background, as in the accompanying sketch—next year you can add the annuals and have a glorious garden! Moreover, by saving seeds from this year's annuals, and planting them late next spring in flats you can have plenty of good annuals for the hardy beds.

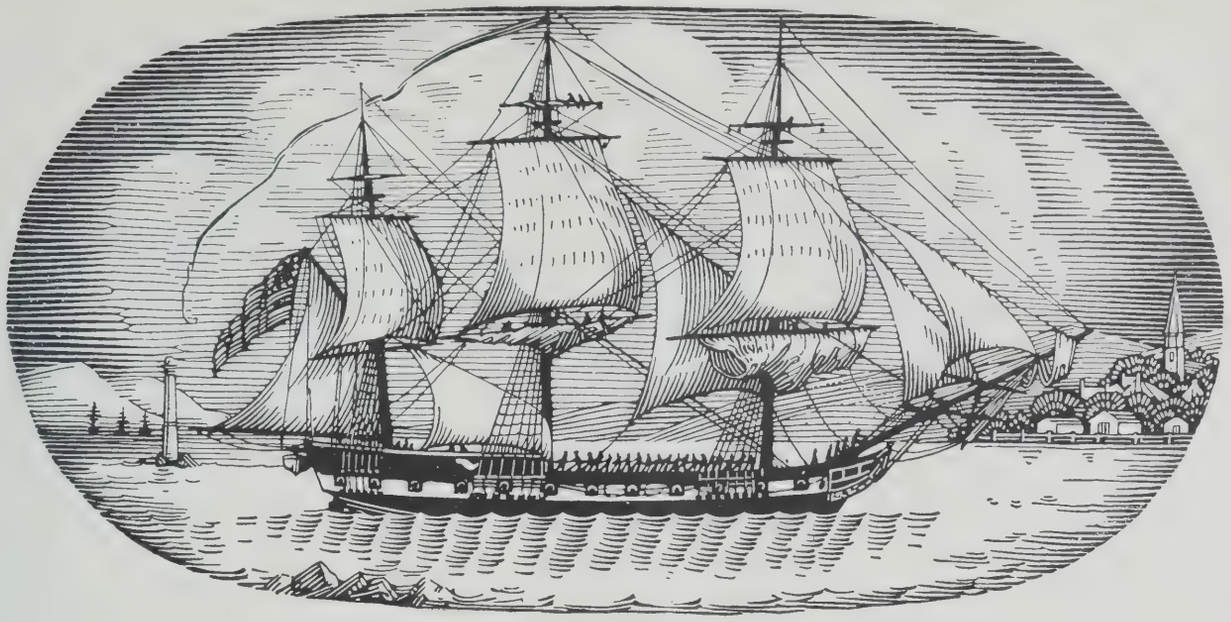
Having tried both these plans—the annual garden made the first year, mostly from seedlings I took down myself, with a few plants from the florist's; and also a hardy garden which was a perfect joy the next summer—I know how much pleasure and satisfaction one can get from a midsummer garden, even though it be small and unpretentious!—MARY RICHARDSON, *Bound Brook, N. J.*

The Sports of Iris

TO THE EDITORS:

The communication in the February issue on "Can an Iris So Behave" is interesting as being another report on mutations in the Iris. It seems to be florentina alba which has been noticed most often as varying in color, although Mr. Stager, in his book on "Tall Bearded Iris," makes note of Honorabile, as having the standards and falls in individual flowers divided into a different color scheme, white being introduced in one half of the standards and clear purple in the fall which up to that time had produced normal blooms of the usual colors, "yellow" and "crimson-brown." Mr. Stager gives it as his opinion that these variations are not of a permanent character, depending upon local conditions.

There is in the October, 1925, Bulletin of the American Iris Society, a photograph of a double Iris (Isolene) showing six standards and six falls. In my own garden I have been much interested for a number of years to see the sporting of Celeste. Year after year I have never failed to find one or more sprays of double flowers. Sometimes completely double, sometimes only the addition of one or more of falls or standards or both. In view of Mr. Stager's statement, "environment or cultivation is usually held to account for such multiplication of parts," I have noted with interest that to whatever part of the garden or neighboring gardens, Celeste has been transported, it can be depended upon to multiply its parts. In a distant garden many miles from home, whither Celeste had wandered in friendly exchange, I visited one year in Iris time. Looking up Celeste, she was found to have continued her sporting proclivities under widely new and different environment and cultivation.—SUSAN TYNG HOMANS, *Flushing, New York.*



PATTERNED AFTER THE WALLPAPER OF AN OLD NEW ENGLAND SEAPORT HOUSE

This chintz has the quiet charm of things old

PERCHED high upon a rocky cliff over the safe, well-known harbor of Marblehead in Massachusetts Bay, an old house stands, beaten silver gray by the winds and fog and salt air.

There dwelt in days gone by, sea-faring men of the stern, Godfearing sort who made New England's sturdy history.

Our new interest in the early days of this, the oldest part of our country, has completely disproved our long-held theory that theirs was a rigorous existence barren of all beauty.

FROM so seemingly prosaic a source as the wallpaper in the parlour of this old Marblehead farmhouse came the design for the quaint glazed chintz shown here.

All its old-fashioned charm has been preserved, not only in the pattern but also in the colorings in which it may be had — dull green or blue or buff or mauve or salmon.

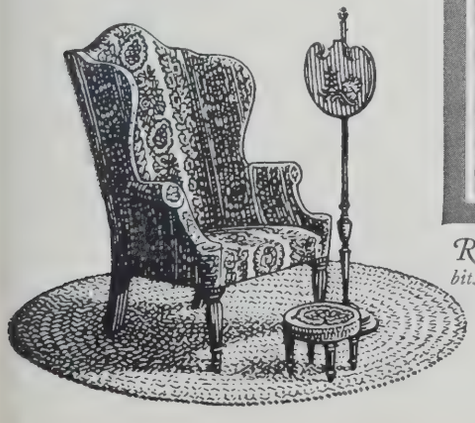
With the interesting and charming interiors planned today along the lines of 17th and 18th Century America, this chintz is delightful.

It may be used on an old wing chair, as suggested in the illustration. Or for draperies, for window shades, for slip covers.

Many other delightful chintzes, both domestic and imported, are included in Schumacher fabrics, in addition to their distinguished line of prints, damasks, velvets and brocades.

Let your decorator, upholsterer or the decorating service of your department store show them to you.

The Easy Chair, so favored by our forefathers, gains added interest when upholstered with this old-fashioned chintz



Reminiscent of old ship models, quaintly prim horsehair furniture and bits of ornament brought from far away ports, this chintz is most delightful

"Your Home and the Interior Decorator"

THE newest decorative effects that give your home individuality and charm are almost impossible to achieve without professional guidance. We have prepared a booklet, "Your Home and the Interior Decorator," which explains how you may, without additional expense, have the expert services of an interior decorator in your furnishing problems.

This booklet, with all its rich illustrations in color, will be sent you without charge upon request.

Write to F. Schumacher & Co., Dept. C-8, 60 West 40th Street, New York, Importers, Manufacturers and Distributors to the trade only, of Decorative Drapery and Upholstery Fabrics. Offices also in Boston, Chicago, Philadelphia, Los Angeles and Paris.

F. SCHUMACHER & CO.

Four Solutions for the Small One-Story House

TO THE EDITORS:

The search of Mr. Charles R. Barry of California (see GARDEN & HOME BUILDER for May, page 280) for "a house of 6 good rooms on one floor, without entering right into the living room and having to pass through one room to get to another, or without a long hall to accomplish that" embodies the same problem that we have been working on for some time and which we think we have solved satisfactorily.

I am aware that the accompanying plan does not exactly fit Mr. Barry's requirements, but he might be able to use it as a basis from which to work. The plan may be so altered as to include a second bathroom and omit one bedroom. We plan to make use of Mr. Ernest Flagg's idea of building the house without a a cellar, and consequently the plan shows no stairway to the cellar; and the laundry is placed in the first floor. Perhaps the location of the stairs up could be used by Mr. Barry for stairs down.—MRS. H. WHITTEMORE BROWN, *Virginia.*

TO THE EDITORS:

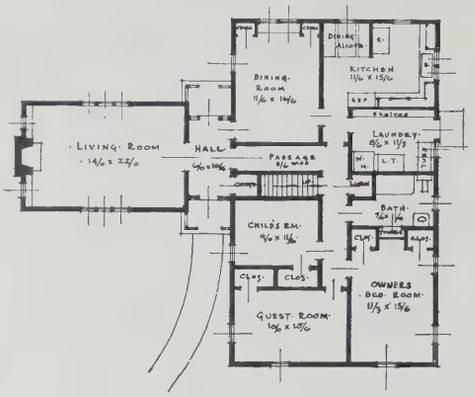
Perhaps the accompanying plan will be of some help to Mr. Barry. He is welcome to it if it is of any use to him.—JAS. B. B. ARNOLD, *Friendship, N. Y.*

TO THE EDITORS:

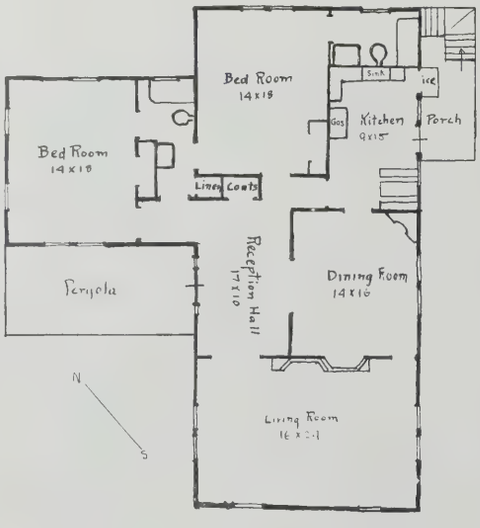
We were faced with the same problem that presented itself to Mr. Barry, and are

sending our solution in the hope that it may help him. The whole plan seems to us very convenient and pleasant. Portieres are hung between the entrance hall and living room and also at the doorway from living room to hall.

The house is well planned for entertaining, as the living room, dining room, and living porch all connect. To add light to hall and stairway the doors have part clear glass. As we were on a corner, we utilized the upper floor for two apartments, with private entrance from side street and have discarded those stairs shown on the plan. The outline of the house is the same and it takes very little from the kitchen. This altered plan is available.—MRS. H. C. JEROME, *Florida.*



Above, plan and rendering of Mrs. H. Whittemore Brown. Left, the one-story house designed by Mrs. H. C. Jerome. Below, plan of Miss Ethel A. Pennell. Right, house plan from Mr. Jas. B. B. Arnold



TO THE EDITORS:

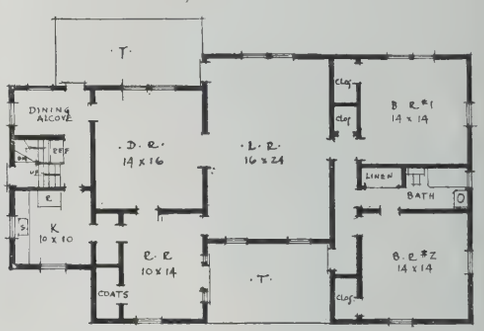
The accompanying solution of Mr. Barry's problem may prove of interest to him, and perhaps to others. My house was planned for two apartments, each complete on one floor, and each with five rooms and a sun-room, or sleeping porch. As my lot was narrow and deep (60x144 ft.) the width of my house could not exceed 40 ft., and my rooms are therefore smaller than Mr. Barry desires. Also, I had to include two halls with stairways, and had one bath on each floor. The bedrooms are placed tandem, so that the second one is not entered directly from the main hall. Because of these differences, I am not showing my own plan, but one that I have adapted from it, similar in essentials, but differing in detail, with two baths and one large hall. All the rooms, with the exception of one bathroom are entered from the hall.

Of course, a plan designed without consideration of the size, grade, and orientation of the lot must be more or less theoretical. Also, if a house is planned without a definite style indicated, it must be adapted in detail so that, for instance, the kind of windows will harmonize with the exterior, and the type of roof must very definitely belong. Then, too, in spacing the window-openings and placing the doors, one must consider the subsequent arrangement of the furniture in relation to the wall-spaces.

The plan that I am offering is adaptable, I think, to various styles and to any exposure. My house is so placed that I may have the morning sun in my dining room and kitchen, and in two or more of the living room windows all day.

As to the interior, the second fireplace can be placed in the hall instead of in the dining room, if desired. The chimney can easily carry both flues, as well as that for the furnace. The wide doorways, with French doors opening from the hall into the dining room and the living room, will give pleasing vistas from the hall through the opposite windows, and increase the sense of spaciousness.

The linen closet may open into either the bathroom or the bedroom, or both. The doors from the front bathroom into both



bedrooms permit easy communication without the necessity of going through the hall. The windows in the bathrooms are intended to be set high, and of either the casement type, or hinged at the bottom and opening down into the room. In the bedroom that is in the main part of the house, an additional window or an outside door can be placed in the wall opposite the bathroom.

In the kitchen, additional light may be supplied by having a half-glass door. The breakfast nook may be carried out to the width of the porch, if the kitchen needs to be enlarged. The back porch, besides providing easy access for the delivery of ice, may also contain a stairway to the basement. The grade of the lot and the height of the foundation must determine whether such a stairway or a bulkhead would better serve as entrance to the basement, which would of course contain the laundry, trunkroom, and furnace room.—ETHEL A. PENNELL, *Wellesley, Mass.*

ESTATE OF GEORGE BULLOCK, ESQ., CENTER ISLAND, OYSTER BAY, L. I. ROBERT GIBSON, *Architect*

WELL do I remember my delight in London, years ago, putting my boots outside the bedroom door to be cleaned and finding them in the morning polished to a high degree. Ever since, that simple little service performed by the "slavey" has stuck in my memory as about the best possible illustration of perfect hand labor. It was the magic of the thing, I suppose, that appealed to me. Never a word spoken, but a perfect service performed.

We now have an automatic device that solves a menial problem with the same magic efficiency. It is, in fact, the solution to the most trying item of house service—heating. It is the Caloroil Burner, a device which may be attached to your present heating plant, and unseen, unheard, without dust, dirt and but little expense, performs its task even more miraculously than the little "slavey" who cleaned the boots in England.

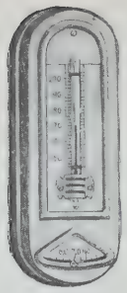
The success of the Caloroil Burner in the greenhouse, where the demand for absolute control of temperature is greatest, is ample proof of its efficiency. Where, outside of the sick room and nursery, do you find the watchfulness and care given to human life that is given to plant life in the greenhouse? The horticulturist literally takes the pulse of light, moisture and temperature night and day, day in and day out. A variation of but ten degrees between the maximum temperature of the day and the minimum temperature at night is carefully correlated with the amount of light and moisture best suited to the individual plant. Imagine all this time, thought and care given merely to provide us with flowers for our table!

Now contrast this with your own household or the households of your friends. How many times is it much too hot or far too cold?

Few of us think of consulting a thermometer. The fact that we survive is rather a result of our own hardiness than of any particular care we give to preserving our health.

Surely, where the beneficent results of a little care and attention are so evident in plants, it seems odd that we humans do not seek the same benefits for ourselves. Add to this the real comfort of even temperature, the saving of labor and fuel, the cleanliness of operation, absolute confidence in securing heat when and how wanted, even the comfort of an extra room in the house, and you have a few of the merits of a Caloroil Burner attached to your heating plant, simply operated and controlled by a thermostat, this latter located wherever most convenient for the family.

The installation of the Caloroil Burner to operate a furnace already in a house means reclaiming the cellar as a clean serviceable room; while the



When set at the desired temperature, the Thermostat, conveniently located upstairs, controls the operation of the Caloroil Burner.

prospective builder who wishes to cut corners, can, by using a Caloroil Burner, easily reduce the amount of excavation from the cellar, thus saving himself appreciable expense.

It is automatic; does away with all stoking or banking of the fire, and attentions to drafts and dampers. All that is needed is to set the thermostat at the degree of temperature desired; the Caloroil Burner, once set in operation, will raise the house temperature to the degree for which the thermostat is set, and will maintain that temperature unchanged until either the Caloroil Burner is shut off or the thermostat is set for a different temperature. Should the temperature go above the point desired, the Caloroil Burner is automatically shut off. No more fuel (oil) is used than is required to maintain the desired temperature.

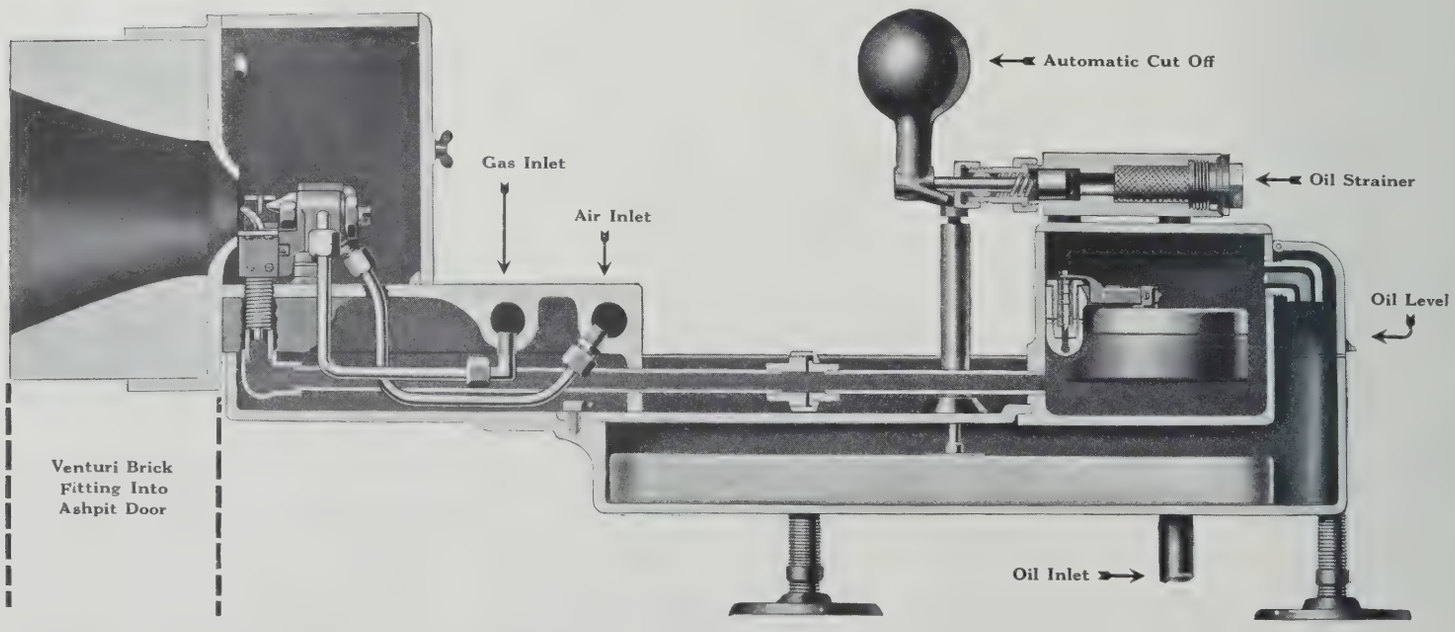
The Caloroil Burner is of the *vacuum feed type,* as contrasted to "gravity" or atmospheric or pressure oil feed. (See illustration below). The oil, which is stored in tanks, is piped to the oil inlet of the burner and maintained at a level below the nozzle. A small motor driven compressor, which is in turn controlled by the thermostat, furnishes the air which is passed over the oil nozzle and there creates a vacuum. This vacuum lifts the oil from its level, causing it to come into contact with the air. Instantaneously, it is atomized or broken up into minute particles which are ignited by a small gas pilot light. This action is positive and requires no adjustment of the oil supply. The elimination in every instance of any necessity for adjusting by hand the supply of oil is one feature which insures reliable operation of the Caloroil Burner.

As the grades of oil available in different localities vary, the Caloroil Burner was so designed as to be capable of successfully burning any grade of fuel oil which will readily flow in cold weather. In addition to burning distillates, such as kerosene, furnace oil and gas oil, the Caloroil Burner will operate successfully with the heaviest and also the cheapest grades of commercial fuel oil sold for household use. The ability of the Caloroil Burner to burn this cheap grade of oil enables you to heat your home economically.

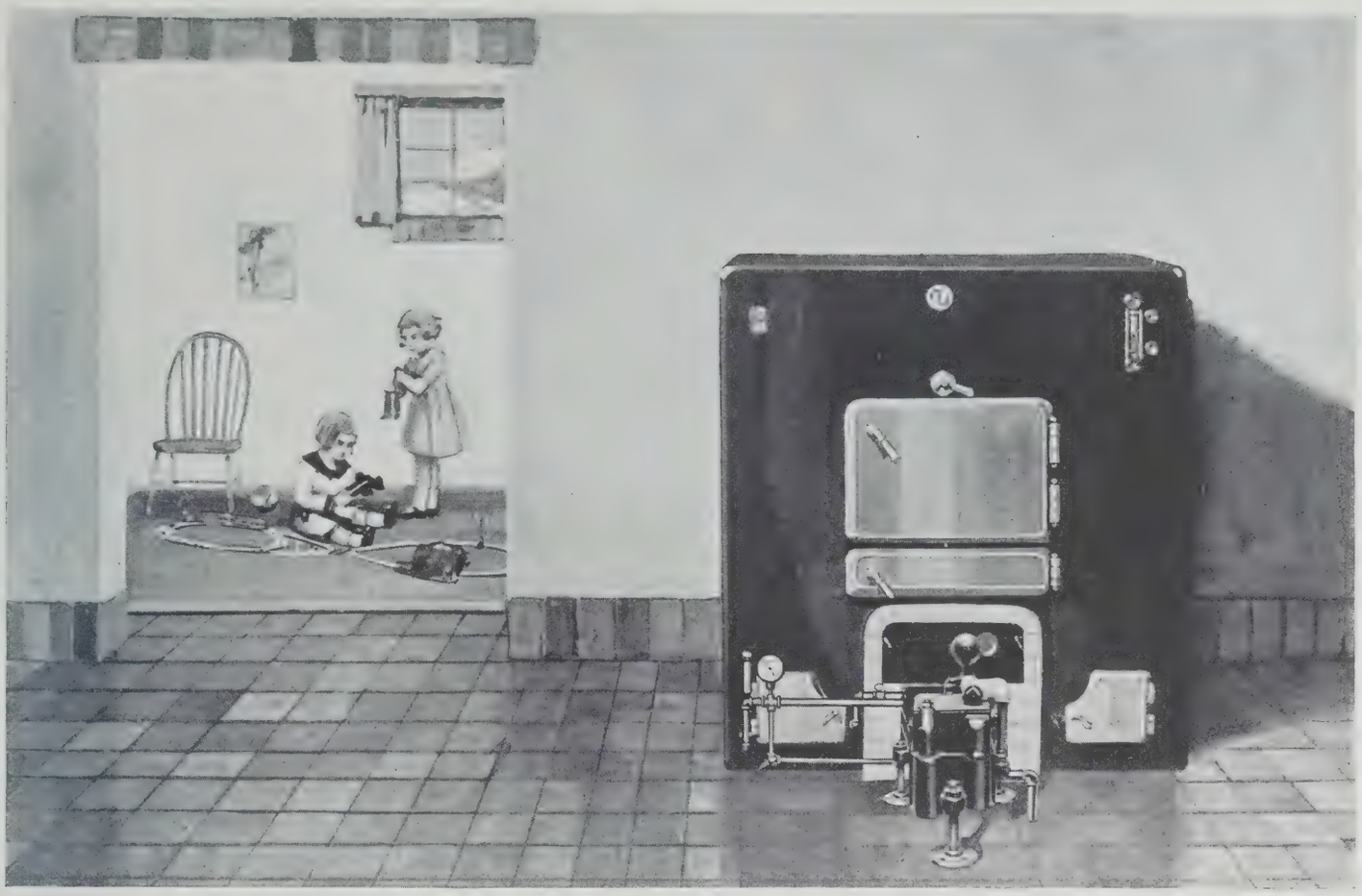
Caloroil Burners will work efficiently and indefinitely on any type or size of domestic boiler or hot air furnace. They can be installed in a short time in either old or new heating plants. The installation is very simple. The whole equipment is placed outside the furnace. The grates are removed and the inside of the ash pit is lined with a layer of standard fire brick. The burner head or heads go into the ash pit door opening. This completes the installation in so far as the boiler itself is concerned. The motor and compressor unit can be placed in any convenient location. Another very important consideration which increases the efficiency of the Caloroil Burner is that no matter how large or small the combustion chamber may be, the flame is easily adjusted so that it is adaptable to that particular size of chamber. The air pressure determines the amount of oil burned, and therefore the size of the flame; as the greater air pressure, the larger the flame. This adjustment is made for maximum efficiency when the Caloroil Burner is installed and thus permanently eliminates the possibility of feeding too much or too little oil, as the flame can be adjusted to conveniently fill the fire box of any boiler. This means that the Caloroil Burner will be the proper size for your boiler.

The Caloroil Burner itself projects approximately 18 inches beyond the fire door, and is approximately 8 inches across. The Caloroil compressor unit measures approximately 2 feet long by 12 inches wide by 12 inches high, and may be located in the cellar wherever convenient to the owner. When necessary, one compressor can handle two or more burners for heating the hot water plant as well as the furnace.

The oil storage tank is best placed where most convenient to the oil delivery truck. It may be



A CROSS SECTION OF THE CALOROIL BURNER



THE RECLAIMED CELLAR

buried in the yard near the walk or driveway. The tank for the average home has a 1,000 gallon capacity, measuring six feet in diameter and six feet long. This is usually placed 2 feet below the surface of the ground.

The cost of installing the Caloroil Burner will depend upon the size oil storage tank used. This burner may be purchased on a deferred payment plan. In figuring this cost, various savings involved are worth considering. First, it will save the wages of the furnace tender—Caloroil Burner is automatic. Second, Caloroil burns every single particle of oil. Third, it will generate heat only as it is required—the minute that your rooms are comfortably warm, Caloroil turns off.

Caloroil Burners combine all the desirable features that our years of experience with oil burning equipment has shown will give:

Uninterrupted service	Quiet operation
Uniform heat	Flexibility
Lasting economy	Safety
Comfort	Cleanliness
Reliability	

Caloroil Burners are different from other burners in that they *combine all* of the following features:

(1) Thermostatically controlled; absolutely automatic in operation.

(2) Operate without smoke or odor, and are clean.

(3) Size of flame can be regulated, by adjustment of screw, to meet heating requirements of the boiler.

(4) Construction and operation easily understood; no parts in the boiler.

(5) Neither a gravity nor a pressure feed; the oil is lifted to the atomizer by an automatically created vacuum.

(6) Require minimum servicing.

(7) Attain maximum efficiency by compiete atomization of the oil.

(8) Operate perfectly on any grade of fuel oil that will flow in zero weather. Use cheaper grades which contain the most heat value.

(9) Can be installed in a short time; no dismantling of present boiler necessary.

(10) Installation wholly outside of boiler or furnace—always accessible.

(11) Can light wood fire in combustion chamber without damage to burners.

The Caloroil Burner offers you cleanliness, comfort, convenience and uniformity of heat. When a cold spell comes suddenly, you have heat instantaneously. There is no bother of building a fire and waiting around for several hours. When the weather gets warm, Caloroil shuts off immediately. It is easy to see how this burner will save money for you.

Advertisement

A Few Letters From Owners of Caloroil Burners

"AN EFFICIENT AND LABOR SAVING DEVICE"

"I have to advise you that I have checked up on the cost of operating the Caloroil Burner during the past season and find that the total oil burnt is 1,700 gallons. This oil at 7c per gallon cost $119.00.

"My estimate (which I believe to be very conservative) for the gas and electricity for the heating season is $30.00, which makes a total cost of oil, gas and electricity of $149.00.

"The coal consumption for the heating season has averaged approximately 12 tons, which at a cost of $16.50 delivered makes a total cost for heating with coal of $198.00, or a net saving by using oil of $49.00 for the season. This saving I figure is approximately 5% interest on the investment of about $800.00, the cost of the oil burning installation, so that I feel that I have made a very good investment in installing this oil burning equipment, and, of course, have saved all the inconveniences of handling coal and ashes and also the expense which might have been incurred for hiring of labor to handle the coal and ashes.

"I surely can very thoroughly recommend the Caloroil Burner as an efficient and labor saving device."

S. Franklin Gardner,
Washington, D. C.

"The Caloroil Burner has given absolute satisfaction. The consumption of coal was never less than 50 tons. My consumption of oil has averaged less than 6,000 gallons. The highest price of oil since 1920 has been 8c."

Ernest W. Zentgraf,
Stapleton, Staten Island.

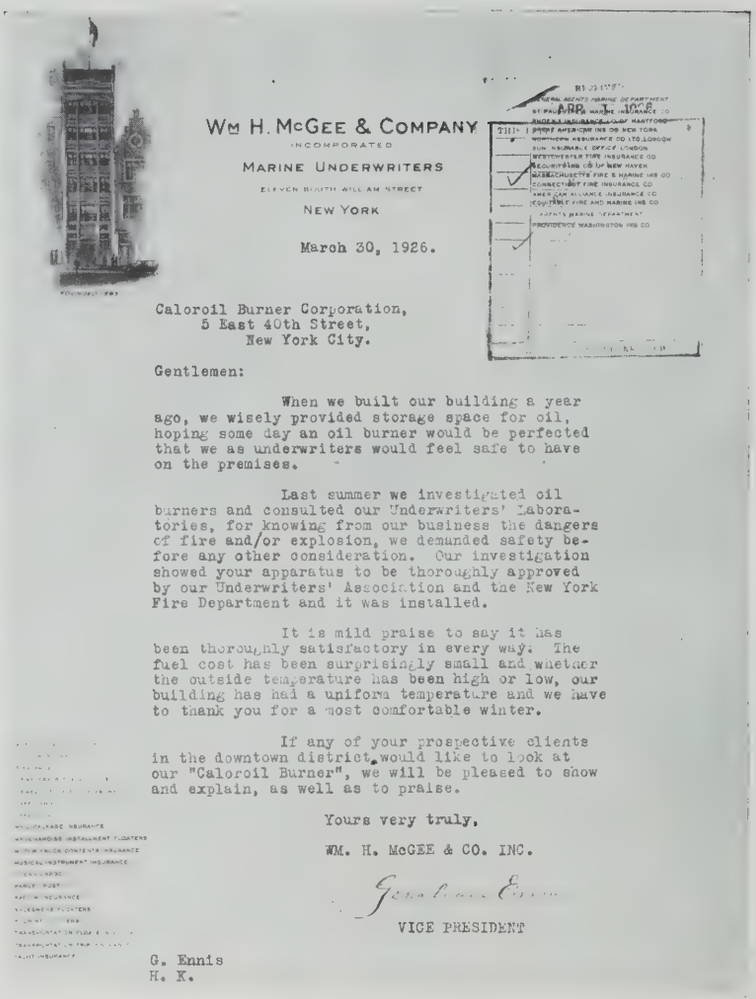
"SAVING AND PRACTICALLY NOISELESS"

"Now that the winter is almost over, I feel that I can, with justice, express an opinion of the burner equipment you installed in my home last October. The equipment, which consisted of a single burner and a twin burner was sufficient to adequately heat the house in the coldest weather. I cannot be sure of the economy of the burner because I am not sure of the quantity of oil I shall still have to buy. However, the cost of the oil will be about $250.00 less than a coal bill of $750.00. Out of this difference must come the cost of the gas and electricity. This estimated at $15.00 per month, for six months is approximately $90.00. The total saving, therefore, is about 20% of the amount I would have had to expend for coal.

"When the burner was first installed, a certain amount of vibration was felt in the room immediately above it. This was due to the fact that we had open heat registers between the two floors, which served as a sound conductor. Plaster boards were used to close this passage, and since then, the burner has been practically noiseless.

"With respect to the operation and the efficiency of the burner, I am well pleased."

Samuel Grossman,
N. Columbus Avenue,
Mt. Vernon, N. Y.



Wm H. McGee & Company
INCORPORATED
MARINE UNDERWRITERS
ELEVEN SOUTH WILLIAM STREET
NEW YORK

March 30, 1926.

Caloroil Burner Corporation,
5 East 40th Street,
New York City.

Gentlemen:

When we built our building a year ago, we wisely provided storage space for oil, hoping some day an oil burner would be perfected that we as underwriters would feel safe to have on the premises.

Last summer we investigated oil burners and consulted our Underwriters' Laboratories, for knowing from our business the dangers of fire and/or explosion, we demanded safety before any other consideration. Our investigation showed your apparatus to be thoroughly approved by our Underwriters' Association and the New York Fire Department and it was installed.

It is mild praise to say it has been thoroughly satisfactory in every way. The fuel cost has been surprisingly small and whether the outside temperature has been high or low, our building has had a uniform temperature and we have to thank you for a most comfortable winter.

If any of your prospective clients in the downtown district would like to look at our "Caloroil Burner", we will be pleased to show and explain, as well as to praise.

Yours very truly,

WM. H. McGEE & CO. INC.

VICE PRESIDENT

G. Ennis
H. K.

"WOULD NOT HAVE A HOME WITHOUT ONE"

"The new model, which you installed 2 years ago for me, has given absolute satisfaction. I find that it costs about 70% of the cost of coal, and gives a heat when I want it, which we never could get when we were using coal. The oil costs 7½c per gallon, delivered.

"One of the biggest savings is where we have been able to eliminate one of the help during the season, as the Burner requires practically no attention.

"I am so 'sold' on Oil Burners that I would not have a house without one."

Jesse Froehlich,
1743 Broadway, New York City.

* * *

Note: All comparisons of cost of operation between coal and oil as fuel are based on anthracite coal.

"NO MORE COAL FOR ME"

"I am more than pleased with th Caloroil Burner which you installe in my furnace. I have never experi enced more comfort than I have thi year. I have a Mercoid thermosta as you know, and no matter what th weather is outside, the temperatur inside has always been uniformly wha we set it at.

"This year, my furnace has bee burning nearly a month longer tha usual, and while I cannot give you th exact figures, I have used about 3,00 gallons of furnace oil. As to the cos compared with my former cost of coa taking into consideration the electricit used for the motor and the gas use for the pilot light, which I have n means of ascertaining definitely a both are on my regular meters, might say the cost is a trifle under m coal bill. The furnace man, however is clear gain. Even if the cost wa higher, the absence of ashes and dir and the comfort of the heat is fa more to be desired.

"Outside of a couple of minor ad justments, I have had practically n trouble with the burner and woul gladly recommend it to anyone. might add no more coal for me."

Beverley R. Newbery,
New York City.

"The Caloroil Burner has proved very efficient and at a great saving over the cost of coal, besides having the comfort and convenience of clear heat, when, and as you want it."

K. J. Lundgren,
Woodmere, N. Y.

"I cannot speak too well of this wonderful device (The Caloroil Burner) which has given unqualified service since its installation."

H. B. Manville,
Pleasantville, N. Y.

"I am well satisfied with the Caloroil Burner."

Anderson Dana,
Jericho, N. Y.

"It never got out of adjustment during the whole winter and for weeks no one ever looked at the furnace at all. The whole thing is perfect and satisfactory to the highest degree."

Hobart S. Bird,
Tuckahoe, N. Y.

"I had used an average of 40 tons of coal for the season, at a cost of approximately $560.00. I now use only about $350.00 worth of oil. It is quite a saving."

John W. Bunker,
Hollis, N. Y.

Caloroil Burner Corporation

5 East 40th Street New York City

An inspection and report by trained men will be made of your present heating plant. We will tell you frankly if oil heating is not practical in your home. Call or write.

ADVERTISEMENT

PETERSON'S PERFECT PEONIES

FOR 21 years Peterson Peonies have set a standard for quality and reliability that has challenged comparison.

They are the result, not of an overnight hobby, but of a lifetime of loving devotion, passion—call it what you will.

Do not place your order until you have received a copy of my 1926 peony catalog (the quality of which reflects the quality of this business) ready for distribution August 1st and sent on request.

GEORGE H. PETERSON

Rose and Peony Specialist

Box 50 Fair Lawn, New Jersey

The "Shortcutter" *does not believe in signs—*

He cuts across private property without a thought to the damage done to lawns and shrubbery. Privacy means little to him. Page Fence will establish your boundary lines and present a friendly but effective barrier against trespassers, stray animals, mischievous children and others.

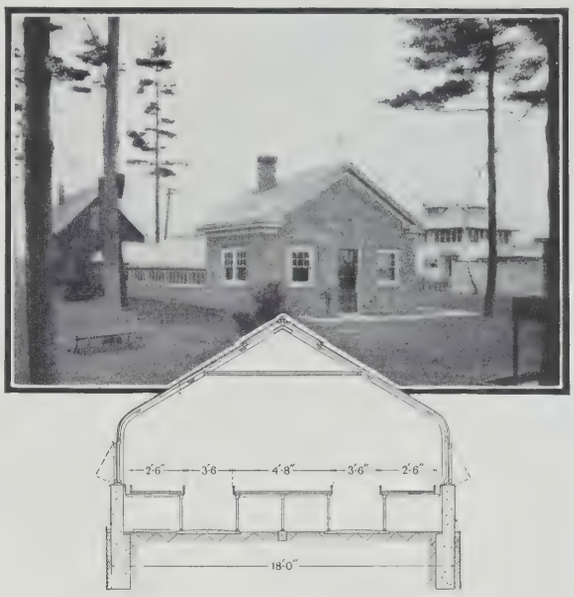
Both framework and fabric may be had in copper-bearing steel or Armco Ingot Iron (the latter exclusive with PAGE). Given a heavy coat of zinc galvanizing after weaving, Page Fence offers the most economical and lasting protection.

Page Fence has national distribution. Write for interesting literature and the name of the distributor nearest you. He will be glad to submit plans for your particular needs.

TRADE MARK
America's first wire fence-1883

PAGE FENCE & WIRE PRODUCTS ASSOCIATION
215 North Michigan Avenue, Department 38, Chicago, Illinois
Distributing wire link products
made by the Page Steel and Wire Company, Bridgeport, Connecticut
An Associate Company of the American Chain Company, Incorporated
District Offices: Chicago · New York · Pittsburgh · San Francisco
Made in Canada by: Dominion Chain Company, Limited Niagara Falls, Ontario

PAGE FENCE



What George Harvey of Newton Center, Mass. Grows in His Greenhouse

IT was just the last of April when I chanced along to take a photo of the glass garden.

Although the house is but 18 feet wide and 33 long, it contained at least 30 different kinds of flowers, luxuriant in foliage and profuse in blooms.

One of its delights was the abundance of the old-timey, every-day-kind of flowers.

Running along one side, above the other flowers, was a nasturtium, with its perky flowers and spicy seed pods.

Hanging in baskets were lantanas. Across the end of one bench were sweet peas. At their feet were double and single, orange and golden calendulas.

Sunny-eyed marguerites in pots, sidling up to rather stately snapdragons. Ageratum, salvia, Japanese pinks. Yes, and even some of our Grandmothers' fuchsias.

All these, and many more I can't possibly remember, all growing happily in this house 18 feet wide and 33 long.

How can you resist finding out what just such a one would cost, built on your grounds? Glad to send you our printed matter.

FOR FOUR GENERATIONS BUILDERS OF GREENHOUSES

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

Eastern Factory, Irvington, N. Y.
Western Factory, Des Plaines, Ill.
Canadian Factory, St. Catharines, Ont.

Irvington, New York
New York, 30 E. 42nd St.
Denver, 1247 Land Title Bldg.
Philadelphia, 429 Land Title Bldg.
Chicago, Cont. Bank Bldg.
Boston, Little Bldg
Cleveland, 1304 Ulmer Bldg.
Kansas City, Commerce Bldg.
Toronto, Harbor Comm. Bldg.
St. Louis, 704 E. Carrie Ave.
Greensboro, N. C., 507 N. Meidenhall St.
Buffalo, Jackson Bldg.
Montreal, Can., 124 Stanley St.
St. Catharines, Ontario, Can.

Our Prize Contests

Each Month $25 for a Simple Practical Improvement

(Contest for this month closes September 1st)

WHAT is your practical suggestion, with sketch plan, of a simple modification for bettering any plan of either house or garden, or both, appearing in this issue? [This refers to editorial pages only, any plans appearing on advertising pages not included.] Each month GARDEN & HOME BUILDER offers a $25 prize for the most striking, practical and ingenious suggestion for the *simple* improvement of any of the plans in the current issue. (Elaborate reconstruction will not be considered). This applies to any plan printed for the first time in this month's editorial pages, and replies must reach us by September 1st.

It may be that you can see an improvement by stealing space for a closet, or adding an extra bathroom; the approach to the garden can very often be made more practical, more fitting; or perhaps it is the garden itself that can be bettered. These are but suggestions by way of example. Unsuccessful entries cannot be returned, and the right to use (at regular space rates) any suggestion submitted in the contest is reserved. Address entries to: Monthly Improvement Contest, % The Editors, GARDEN & HOME BUILDER, Doubleday, Page & Co., Garden City, N. Y.

For Garden Photographs $50

(Entries close October 1st)

TWO prizes of $50 each are offered to Garden Clubs for the most attractive and interesting photograph (or photographs) of gardens made this year ("this year" refers only to the flower planting, not to the permanent background of trees, etc.) Contest closes October 1st, 1926, by which date all photographs with explanatory details showing how the garden was made must reach the Editors. A club may submit one or more photographs of any garden in its district. The photographs must be suitable for reproduction and should have about a thousand words of explanation as to how the garden was worked, what it accomplished, and some account of the most interesting features. We reserve the privilege of purchasing at regular rates any material submitted. Unsuccessful entries will be returned only when requested and stamps are enclosed for postage. Address: Photo Contest, % The Editors, GARDEN & HOME BUILDER, Doubleday Page & Co., Garden City, N. Y.

The May Plan Improvement Contest

Won by Luigi V. Viola, Mountain View, N. J.

FOR May Luigi V. Viola wins the Plan Improvement Contest with a suggestion for the plan of the Alpheus W. Chittenden house, page 276 of the May issue. Many suggestions for "improving" the plan of Our One Story Garden Home (page 247) came to us, but nearly every revision suggested had been previously considered by the architect and found impractical.

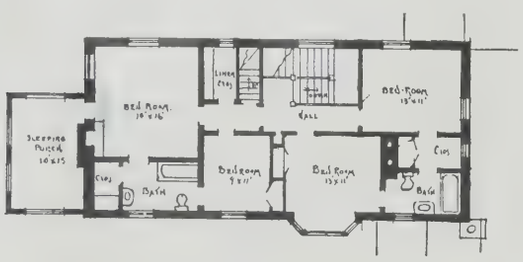
A number of reconstruction schemes were sent in, as usual—but it is the ingenious modification which does not radically change the original plans that wins the Contest.

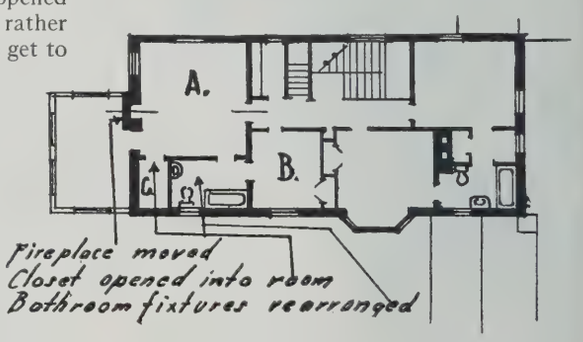
Mr. Viola writes: The fireplace in bedroom A seems to me rather unfortunately located and cramped into a corner. I would suggest moving it as indicated which would place it directly opposite the door and on the axis of the hall.

This would allow closet C to be opened directly into bedroom A which it serves rather than forcing the occupant of room A to get to it through the bathroom which is shared with the occupant of room B.

Doing away with the closet door from the bathroom will permit a rearrangement of the fixtures somewhat as indicated, and removes the seat from across a door opening.

LUIGI V. VIOLA, Mountain View, N. J.





The original plan, at left, published on page 276 of the May issue. At right, Mr. Viola's suggested improvements

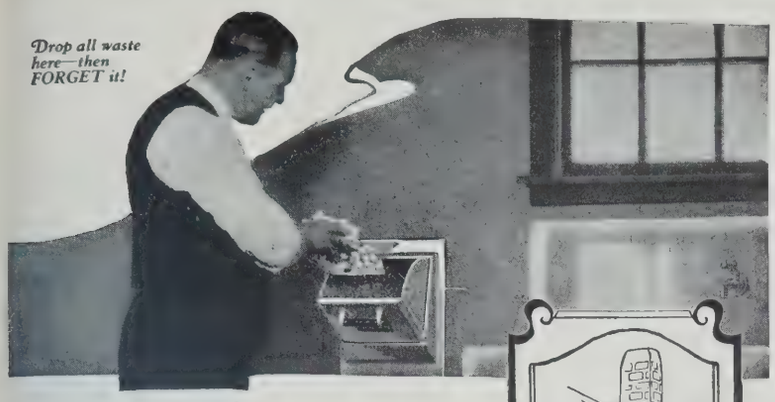
Dividends in Contentment

(Contest closed August 1st)

THE offer of $100 as a prize for a little human interest story of an adventure in going back to the land has, we are gratified to state, brought out a number of really interesting accounts of experience. Entries closed on August first, and the duty of adjudication is begun. The winner will be announced in the first issue possible after this, but as our office schedule is about three months ahead of the appearance of the issue it must be October or November before the award can be announced on this page.

Stories of people who have gone back to the land, people who have re-discovered "earth's undersong of comfort" are a theme very near to many hearts to-day—this second coming of the land into her own, her reassertion of the vital part she plays in human lives and destiny. Through the whirring of much machinery we begin again to hear the still small voice.

The number of entries is really larger than we had anticipated, which, however, speaks well for the interest that this particular contest has aroused.



A Step Saver that Costs Nothing to Operate

WHEN you're planning your new home, banish the nuisance and drudgery of waste and garbage disposal forever. The time-tried Kernerator will do it—and the only cost will be the first cost, which is no more than that of a good radio set.

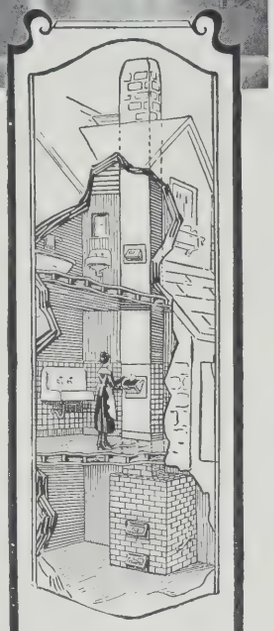
Costs Nothing to Operate—Uses no Fuel

The Kernerator (which must be *built-in*, as it cannot be installed later) consists of a brick combustion chamber at the base of the chimney, with a hopper door in or near the kitchen above (also on upper floors if desired). All waste—garbage, tin cans, sweepings, paper, bottles and the like—dropped through the handy hopper doors, falls to the cumbustion chamber, where an occasional lighting reduces everything burnable to ashes.

Ask your architect or builder—he knows and recommends the Kernerator—or write

KERNER INCINERATOR COMPANY
731 East Water St. Milwaukee, Wisconsin

KERNERATOR
Built-in-the-Chimney
Reg. U. S Patent Office



Non-combustibles (tin cans, crockery, etc.) are sterilized by the flames for easy removal with the fine, dry ashes.

YOU MAY *think* your floors look good enough but that's only because you've become accustomed to their dinginess. If you want to see them as others do, merely refinish a small spot under a rug, and compare the old surface with the new. The difference is usually amazing. Only then do you realize how much your home is handicapped by your floors—how much more attractive it could be if only those floors could be improved. They can be. With the Ponsell you improve them yourself—easily.

ARE YOU ASHAMED OF YOUR FLOORS?

Scrape and refinish them *yourself*—this amazing little machine does all the heavy work.

LOOK at your floors. Are you satisfied with them? Completely satisfied? Proud of them?

You could be. You could make them ten times lovelier. You could make them envied by every neighbor—admired by every visitor. Within a day you could transform them—quickly change them from dingy surfaces, luckily covered up for the most part by rugs, to gleaming, spotless places of which you hate to hide a single inch.

"Oh no!" you say, "Not my floors!" Oh yes, we answer, *your* floors, ANY floors. The most neglected floors have possibilities. Layer upon layer of old shellac and varnish may disfigure them. Year upon year of ground-in dirt may seemingly defy removal. Yet underneath there is the clean and honest wood—the hidden warmth and color of the grain.

"But the expense?" you say. "I've had them give me estimates. What about the hundreds of dollars refinishing will cost me?" This advertisement offers you a way to overcome that difficulty. It calls your attention to the most remarkable machine ever made for household use—a machine that refinishes floors, scrubs floors, polishes floors—a machine that costs but a fraction of what you usually pay for *one* refinishing job. With it you yourself refinish floors with ease. The apparently impossible job of taking off the old shellac and varnish becomes absurdly easy. The manifestly back-breaking jobs of sand-papering and rubbing in new wax turn out to be a matter of merely guiding a machine. And these jobs only need to be done *once!* A few minutes waxing and polishing each week with the machine, an operation so simple that a child can master it, *keeps* your floors looking always as though they had been refinished the day before.

This is not mere enthusiasm. The claims we make can easily be demonstrated. In twenty-four branch offices we have men ready and anxious to show you *in your own home*, what the Ponsell Floor Machine can do. In thousands of homes it has already won the unqualified praise of users. No matter what the floor—wood, tile, rubber, cork, linoleum or cement—it is a permanent labor-saver. It gives linoleum a lustre surpassing anything you have ever known before—a surface so immaculately smooth that dust and dirt have a hard time sticking to it. It does away with all the severe drudgery of cleaning. Gone is the stooping and kneeling, the wear and tear on your hands of water, soap, cleaning fluids, scrubbing brushes and wet rags. Gone is the dismal labor of rubbing, and mopping, and drying.

Just what the Ponsell Floor Machine does, and how it does it, is a fascinating story. It is a story that every homeowner should read. We offer you an interesting booklet that contains it—a clear, brightly told description interlarded with explanatory pictures. With your eyes on your floors, can you say, "No, I am not interested." Take the first step toward more beautiful rooms. Mail the coupon or write a letter for further information on how to refinish your floors *yourself*. Ask us for a FREE demonstration—or, if you are too far from our nearest office, a ten-day FREE trial.

Ponsell Floor Machine Co.
Dept. 38
220-230 West 19th St., New York City

Please mail me complete information and prices regarding your Electric Floor Machine. This does not obligate me in any way whatever.

Name.....

Address.....

City..... State.....

G. & H. B. 8

Mail coupon below for new portfolio containing photographs of installations, details of construction, and a partial list of prominent Dubois users.

The first of this fence to be used in America was erected in 1901 at Westbury, L. I., and has never needed repairs!

Don't let motor-packed roads annoy you ~ erect DUBOIS

THIS is the fence that has been used for centuries in France and England to shelter a house or garden from the outside world.

Friendly in appearance, lending quiet charm to every setting, it serves as effectively as a stone wall in preventing people from staring in at you.

It is made of straight chestnut saplings woven together by hand. Moderate in cost. Easy to erect.

DUBOIS Woven Wood Fence

ROBERT C. REEVES CO.
187 Water St., New York
Please send, without obligation, your new portfolio illustrating the many interesting ways *Dubois* is being used.

Name.....
Address.....
City..... State..... 84

The National Garden Association

Formed to promote the annual observance of National Garden Week

Leonard Barron, F.R.H.S., President

Honorary Vice-Presidents: J. Horace McFarland, Mrs. Francis King, Mrs. Russell Tyson, Mrs. Thomas G. Winter, Mrs. Samuel Sloan, Mr. Frederick Newbold, Mr. Robert Pyle, Mrs. John D. Sherman.

Coöperating Societies: Society of American Florists and Ornamental Horticulturists; National Plant, Flower and Fruit Guild; American Dahlia Society; American Iris Society; Ontario Horticultural Association; American Forestry Association; Women's National Farm and Garden Association; Wild Flower Preservation Society; National Horticultural Society; The Agassiz Association; The School Nature League; Society of Little Gardens.

EACH of the societies coöperating with the National Garden Association is engaged in work that is highly educational and inspirational. At the same time it is most important from a civic point of view since each stresses conservation in some phase of its broad program.

The campaign carried on by The Wildflower Preservation Society is of particular interest this month when all the world is awheel and vacation-time is taking many thousands of persons to the country. This program is more than merely a beauty-loving, aesthetic crusade; it is practical, fundamental, since it aims to preserve the natural beauty of our land, It is backing up the work of national park commissioners, and of state park boards as well. "There is a woful lack of understanding of the work and purposes of the conservation program," says Prof. Bailey of Cornell University. "It does not mean that we should study the trees and flowers to use them as we will—to uproot and strip them—but it means the right use of these gifts, leaving rare and vanishing plants in their homes, allowing others to seed and so conducting ourselves in the presence of shrubs, trees, and flowers as we would wish any one to do with things we prize and possess presumably as our own."

Perhaps nothing could more fully illustrate the practical scope of this society than the following leaflets which they distribute and which hold so many timely thoughts for the city dweller who is hastening this month—or any month—to the country:

(1)"Help save the trees and wild flowers; protect the birds and game. Keep the highways beautiful; pick up the picnic rubbish; put out your fire; then bury it."

(2) "Mr. Hunter and Mr. Fisherman, the national forests are yours, to use and enjoy!

The effect of forest fires on fishing and hunting can not be reckoned by the nests destroyed or the number of fish, birds, or wild animals killed outright. It is more far-reaching than that, for forest fires destroy the opportunity for fish and game to survive and multiply. The loss is not that of a season, but for all time to come; at least until there has been adequate replacement of food and shelter and that is a very slow process.

Fish and game can survive no longer than their natural habitat. Every forest fire, large or small, disturbs the natural and vital relation between forest and stream and makes natural fishing waters less habitable, less inviting to the fish. (In the absence of trees the waterfall is less and the streams dry up.)

For your sport's sake, *BE CAREFUL WITH FIRE. BE SURE YOU DON'T CAUSE ONE."*

(3). "Protect our rare Native Plants! Pick these sparingly, especially if near a large town or tourist point. Buying rare wild flowers from street vendors or markets encourages their destruction. The roots should not be disturbed and plenty of flowers left to go to seed if you wish to enjoy them another year.

"Put out and bury lighted matches, cigars or cigarette stubs in the woods or fields as fires destroy humus in the soil necessary for the growth of desirable plants, and often causes them to be replaced by troublesome weeds."

The work done by the many branches of this society is of importance to each one of us, for it means the actual preservation of natural beauties which each of us has a share in. We hear of the golden Poppies of California, a picture that we feel is waiting for us to see someday. But that picture has been ruthlessly torn from its frame and only a scattered few of the pieces are left. Throughout the state of Colorado the slopes and hills were once abloom with the bell-like Columbines. No more do they shake their varicolored bells in the breeze—they have been all but destroyed. In Texas large fields of "Blue Bonnets" still make a carpet of blue lovelier than any carpet ever made by hands, but how long will this carpet last unless there be some restriction to prevent large areas from being torn out of it?

The Laurel and Wild Honeysuckle that once turned New Jersey's hills into wide sweeps of blush-pink in May or June are disappearing before the hordes of so-called "flower lovers" who strip entire bushes, and even whole hillsides of these lovely blossoms. Several states have passed laws to protect wild flowers, but reports would seem to indicate that they are not enforced.

"Each year," says a recent copy of *WILD-FLOWER*, the official publication of the Society, "the destruction of wild life and wild plants, due in great measure to the thoughtless or shall we say, the selfish users of automobiles who find it so easy to bring home quantities of our roadside flowers as well as the spoils of the woodlands is such that soon we will have to wander far to discover any of our favorites. Of late years a nation-wide movement has developed, the object of which is the protection of many of our most beautiful localities and incidentally the wild life which grows thereon. The United States Forest Service rigidly enforces the law forbidding the gathering of flowers and plants in the Reservations. Many of the states have set aside certain tracts of land to provide natural playgrounds for the people; these are known as 'State Parks.' The State of Indiana is probably foremost in this work, not only providing a number of beautiful parks but policing them and forbidding the picking of flowers, plants, breaking of trees or other destruction."

Such is the work that this organization is carrying on through its many chapters, and the public schools. Teachers and others interested in the education of children see the great need of impressing the value of conservation and protection of wild life upon the children who are to inherit this country. To this end, Junior Wild Flower Chapters are formed, the members of which are taken on special field trips that their interest may be thoroughly aroused.

Full information about this organization, telling how to organize local chapters, may be had on application. Also for distribution is a circular listing some of the rarer flowers and many that can be picked with little or no danger of extermination, together with other educational literature. This will be sent gladly to all who send a stamp to The Wild Flower Preservation Society, Washington, D. C.

To secure Farmers' Bulletin No. 1388, "Rural Planning" (dealing with the social aspects of recreation places), write to the Department of Agriculture, Washington, D.C. This bulletin gives much helpful information about the need and value of play places in the country and suburban communities. The Playground and Recreation Association of America, 315 Fourth Avenue, New York City, also sends out most interesting bulletins that should be in the library of each garden club.

For free constitution, bylaws and program for garden clubs, address The National Garden Association,

Garden City, New York.
Ellen D. Wangner, Secretary.

FIFTH ANNUAL NATIONAL GARDEN WEEK, APRIL 17th—24th, 1927

A Garden of Rare Plants is a Source of Real Joy

RARE and unusual plants add distinction to small home grounds, as well as large estates. Most of them are so reasonable in price that you can well afford to replace common varieties with these new and unusual specimens.

Eight Uncommon Cotoneasters

Some of these come from China, others from Europe. In normal winters they are evergreen, and the roots are entirely hardy.

Cotoneaster adpressa, (Creeping Cotoneaster), 3-4 in. high, $1.50 each, $12.50 for ten.

Cotoneaster humifusa, 2-4 in. high, $1.50 each, $12.50 for ten.

Cotoneaster microphylla wheeleri, (Rockspray), 3-4 in. high, $1 each, $9 for ten.

Cotoneaster rotundifolia, (Round-Leaf Cotoneaster), 6-12 in. high, $1.50 each, $12.50 for ten.

Cotoneaster divaricata, (Spreading Cotoneaster) 2-3 ft. high, $2.50 each, $22.50 for ten.

Cotoneaster foveolata, 3-4 ft. high, $2.50 each, $22.50 for ten.

Cotoneaster simonsi, (Simons Cotoneaster), 3-4 ft. high, $1 each.

Cotoneaster zabeli, 2-3 ft. high, $2.50 each, $22.50 for ten.

We shall be pleased to send you full information about rare evergreens, flowering shrubs and ground covers. If you plan to change your garden plans this fall write us.

HICKS NURSERIES

Box M **Westbury, L. I., New York**

Shumway's "Pedigreed" Bulbs

Produce the Anticipated Results

Contracts with the Holland growers specified largest sizes. Therefore in ordering you are assured the choice of their stock.

Plant bulbs in quantity this fall for a gorgeous display of radiant blooms next Spring. For your consideration a selection of a few of the outstanding varieties of Darwin and Breeder Tulips are listed below.

Name	*Color*	*Price per Hundred*
Pride of Haarlem	Rose Carmine	$4.50
Clara Butt	Salmon Pink	4.25
Valentin	Light Violet	6.50
Dream	Delicate Lilac	4.50
Bartigon	Carmine Crimson	5.75
Baronne de La Tonnaye	Vivid Pink	4.50
InglescombeYellow	Clear Yellow	4.50
Golden Bronze	Golden Hue	5.00
Cardinal Manning	Rosy Violet	5.00
Zulu	Almost Black	4.25

Special collection of above:
1000 bulbs—100 of each . $42.00
500 bulbs— 50 of each . 21.50

Superfine Collections
Largest Size Bulbs

	Varieties	*100*	*50*
Darwin Tulips	15	$3.75	$1.95
Breeder Tulips	10	4.00	2.10
Cottage Tulips	8	3.50	1.85
Crocus .	5	2.50	1.30
Narcissus .	5	9.75	5.00

All Prices Include Transportation Charges to Your Home

Catalog illustrated in colors lists a great variety of Tulips, Narcissi, Hyacinths, Crocus, Peonies, Lilies, etc. Sent free on request. Write for it today.

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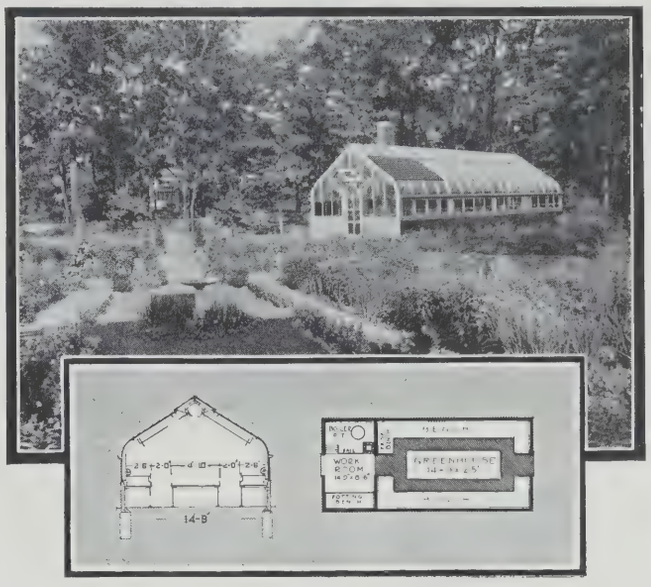

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This Johnson's Wax treatment gives rooms that indefinable charm of immaculacy. It eliminates costly and inconvenient refinishing. Like magic the Electric Polisher brings up a glowing, gleaming, deep-burnished lustre.

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GARDENING FOR THE BEGINNER

The Month's Reminder—August

As to Time and Place: In gardening practice a date can only be approximated as seasons vary and local conditions will have some influence. Generally the latitude of forty degrees at sea level and a normal season is taken as standard. Roughly, the season advances or recedes fifteen miles a day, thus Albany would be about ten days later than New York (which is latitude 42). The latitude of Philadelphia is a week earlier. Also allow four days for each degree of latitude, for each five degrees of longitude, and for each four hundred feet of altitude. Latitude 40 passes through Philadelphia, Pa.; Columbus, Ohio; Richmond, Indiana; Quincy, Ill.; Denver, Col.

How to Use This Guide: Suggestions as to the most important things of the month are given in this department so as to "remind" the gardener of the current duties. For routine details of such things reference should be made to standard handbooks and guides. It is impossible to make a complete manual of practice in each number of a periodical magazine. Yet timely articles will be found elsewhere in each issue, and references to back numbers will often solve the immediate question. Moreover, the editorial staff stands ready to help any reader with personal advice by mail. A self-addressed stamped envelope should be enclosed with the question.

Who Writes This: The advice and instruction in this department are the gleanings of many years' experience in practical gardening matters by competent amateurs and others who have "been through the mill." The contributions are made from various sections of the country: for example, Mr. Jesse A. Currey contributes from Oregon; Mr. Theiss from Pennsylvania; Mr. Henry Gibson from Pennsylvania (formerly from New York); Mr. Sherman Duffy from Illinois; Mr. P. T. Barnes, out of a world-traveled experience; Mr. A. Kruhm, from an extensive Eastern acquaintance; Miss Ethel Hutson from the far South; Mrs. E. Urquhart from California and, in addition, occasional notes from elsewhere and by the editorial staff and associated contributors of experience.

AUGUST is a busy month for the gardener. Only a few weeks before frosts and the glorious fall colors. There is no chance to be lazy.

In the vegetable garden weeds must be hoed out. A last sowing of an early variety of Beet may be made for late season roots. These are excellent ones for storing for winter use. Plant late Celery early in the month. Early Celery is ready for blanching. It may be blanched by banking up earth, or paper may be used. Earth-blanched Celery has the more nutty flavor.

Onions are ready for pulling. Allow them to remain a few days until dry. Then twist off the tops and remove to a cool, dry place for storage.

A sowing of String Beans now may ensure tender pods for mid-September.

Asparagus seed is ripening. While the berries are still green but just beginning to show a tendency to turn red cut the stems off close to the ground and throw the plants on the rubbish pile, burning them as soon as dry. If the seeds are allowed to ripen on the plants in the garden they will drop off, sprout, and produce Asparagus plants where they are not wanted.

Where mildew is not too great an enemy of Peas it is possible to get good fall crops from an early variety.

Late summer or early fall lawns are usually much better than spring made lawns. Thoroughly prepare the ground before sowing the seed. Pick a time for seed sowing when the ground is moist. This may be late August or early September. The young grass plants will have plenty of time to attain size and become established before winter sets in. We have always believed in sowing a good grass seed mixture of which Kentucky Blue-grass was the basis. Kentucky Blue-grass requires a "sweet" soil, one having an alkaline reaction. Weeds also thrive in such a soil. Long extended experiments by the Rhode Island Experiment Station have upset our time-honored lawn customs. It is found that if our lawns are fertilized with an acid reacting fertilizer, like sulphate of ammonia, the sour-loving Bent-grasses will thrive, giving just as beautiful lawns and with few or no weeds, for *most lawn weeds do not thrive in sour soils!* Remember this all ye who have spent long hours digging out Plantain and Dandelion and other lawn weeds.

August is an excellent time to make a planting of evergreens. It is possible to do it also any time of year now, but August has always been a particularly satisfactory month in which to transplant conifers.

Water, if drought prevails. It did up to June first. We have called your attention to this before this summer, but you may have overlooked the paragraph. Under no circumstances must the Rhododendrons, Azaleas, or related plants be allowed to suffer from the lack of water. Be sure the soil about their roots is moist.

For next spring blooms, the Madonna Lily bulbs must be set at once. The earlier the better. Set them deep, six inches, in a rather stiff, clayey soil if available, and be sure that it has an alkaline reaction, for the Madonna Lily does not thrive in sour soil. Some Lilies do, but not this one.

Every Iris grower who has attempted and failed to grow Iris regeliocyclus will be glad to get the scheme of Dr. David Griffith of the U. S. Department of Agriculture's bulb gardens at Arlington, Va., and Bellingham, Washington. He says lift and dry the bulbs in the same manner as one handles Tulip bulbs! Another interesting thing in the Arlington garden is the rapid increase of Narcissus, the common varieties like King Alfred, Emperor, etc. In three years a stock of 2000 bulbs has increased to 13,000; good strong bulbs, too.

For Pansies in your garden early next season, start in early August.

(Continued on page 566)

Like a Gentle Shower

PREVENT the scorching effects of dry, hot days with a gentle shower whenever you want it. Keep your lawns, gardens, flowers and shrubs luxuriantly green and healthy with the improved Double Rotary Sprinkler.

Fine for large areas. Note in the illustration above how it will sprinkle over 5,000 square feet with maximum water pressure. Fine spray or shower-like drops made possible with new adjustable nozzle.

Saves work—operates automatically—saves cost of an attendant.

Constructed of best materials. Bronze and steel gears run in bath of oil. Every part standardized. The Double Rotary is indorsed by home owners, florists, truck gardeners and hundreds of other users in all parts of the country. Try it for 10 days. If not satisfactory in every way, return it at our expense and we will refund money. Price $12.50 postpaid. Descriptive literature on request.

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Next Best to Rain

Northbrook Peonies

PEONY time has gone—now while the memory is fresh in your mind, while you are certain just what you want for next Spring's garden, send for your selection of

The World's Best varieties. You will find Northbrook Peonies carefully selected, of finest coloring and fragrance. All are high rated. Excellent cultivation makes hardy and vigorous stock. Perhaps one of our Quality Groups would be just what you want. Send for the Master List and make your choice.

Northbrook Irises

Of course, you will want a number of the fine varieties of Northbrook Irises for your next Spring's garden. We list a wide selection of the more popular and finer varieties. Northbrook Irises are hardy, sturdy plants with exquisite blooms, sure to please the most discriminating.

The Master List—We are presenting the Master List in a new form, classifying Peonies according to blooming season and color, showing the American Peony Society rating, also foreign and American originations. Irises are classified according to color and rating. The Master List gives valuable information regarding Peony and Iris culture.

Write to-day to

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Paul L. Battey, *Prop.*
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Fungtrogen
FUNGICIDE FERTILIZER

Its invisible film is your safeguard against these and other rose diseases. This famous spray contains Hortogen, an essential nitrogenous element that fertilizes through the foliage.

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SARGENT
LOCKS AND HARDWARE

(Continued from page 564)

Buy the best seed you can get. Sow where shade and water can be given. Transplant the young seedlings to about four inches apart. Upon the approach of winter mulch with dry leaves, with chicken wire or evergreen boughs to hold them in place. Pine needles are a good mulch.

This is the last call for sowing seeds of perennials for next spring's bloom. Monthly we have called your attention to it.

Seeds of those Alpine plants we talked about a few months ago are here now if you heeded our advice. A well drained coldframe is the place to start them.

A coldframe with double glass on it will produce Lettuce all winter for home use in the latitude of Philadelphia and possibly in the vicinity of New York. All that such a bed needs is a thick banking or straw horse manure about the sides to keep out frost. I have seen such an arrangement go all winter without a mat or shutter for protection over the glass.

Violets can be grown all winter under exactly the same conditions. Even as far north as Boston, Violets are successfully grown in coldframes; but up North there must be some protective covering over the glass. Plants must be set in the frames now to become established.

It is time to make the first planting of Freesias. We told you last spring how to grow the bulbs and store them over summer. Get the pots down and separate the bulbs from the earth. Also sort them to size. For the first planting pick the biggest and plumpest. Use a good garden loam; if it's a stiff clay add leaf mold, sand, and a little decayed manure. Early August planted bulbs will bloom by Christmas or a little sooner. Plant the balance of the bulbs by September first. The very small bulbs should be grown by themselves; they will make flowering bulbs another year.

Cyclamen are particularly attractive about Christmas time. Bulbs started now in a very loose friable soil, one full of leaf mold, should bloom by the holidays. But bulbs are not always satisfactory. Plants grown from seed are better, but it takes not less than fifteen months to bring them into bloom. Start now for a year from Christmas.

Easter Lily bulbs are arriving. Did you ever force them in the window garden? It is entirely possible. The big thing is an early start. Now is the time. Single bulbs in 6-inch pots, three or four in 8-inch pots. Put them outdoors in a shaded place until the approach of cold weather. Those for early in the year bloom should be kept growing on, but those for later in the winter may be buried outdoors or put in a cold cellar with earth over them to keep them from drying out. Even these must be slowly started in a cool place by November to get them to bloom about Easter time. (April 17 is Easter day in 1927).

One of the first plants I came to know was the Fuchsia, or Lady's Eardrops. It was a winter window plant at home. They can be found in almost any greenhouse growing a general collection of plants. The Fuchsia is easy to grow, for it thrives even in a north window, making shapely plants with the least care. Get one or two for next winter's window garden. You want plants that have been resting over summer.

The Calla is another old favorite as a winter window garden plant. Summer rested bulbs are now getting restive. Shake out the old soil, repotting in fresh, rich soil and give a good watering and then forget them until roots start. Water sparingly until a good growth has started, after which there will be little danger of over-watering.

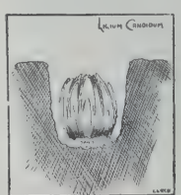
Now is the time to pick the flowers that never wilt, just before the flowers expand. Tie in small bunches so they will dry quickly and hang them in a dry place, heads down, so the stems will be straight. There are the various species of Statice which are easily dried and last all winter. Years ago one occasionally saw them used thus. Pampas and the other plumed grasses may be treated likewise.

Three August Imperatives

AUGUST: Sirius the Dog Star in perihelion; "noon enters the city with burning feet—on the tongue of the temple bell is a butterfly asleep"; the song of the cicada, hay fever, grasshoppers, drought, dust! A trying month in the garden as elsewhere when we wish to do as little as possible.

There are three August tasks essential in the garden: the planting of Madonna Lilies the last of the month, the division and planting of Bearded Irises any time during the month, and the propagation of Oriental Poppies starting early in the month.

MADONNA LILY.—Everybody wants the beautiful, fragrant white candidum Lily. It is not always successful. It does not like a light, hot soil. It needs early planting. Get domestic bulbs this month as they are now usually in stock the last two weeks. It is one of the Lilies that seems to prefer a lime soil. Some others prefer acid conditions. It must not be planted as deep as an auratum or a Tiger Lily. Two inches from the shoulder of the bulb in the heavy soils in which it delights is the right depth. It is not necessary to cover the leaf growth it will make this fall. If it is planted in sandy soil inclined to be dry it must be given plenty of moisture or it will dwindle and disappear.



(Continued on page 568)

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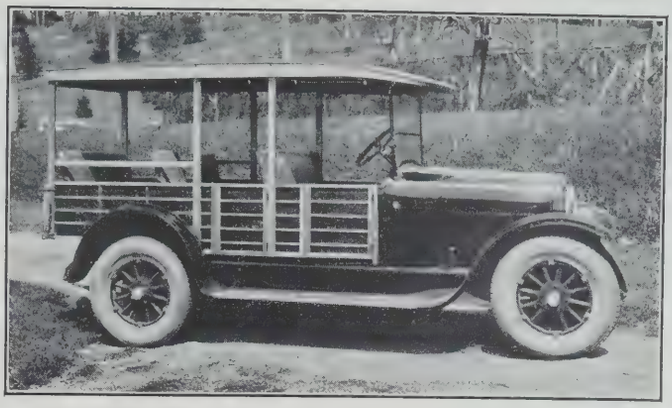

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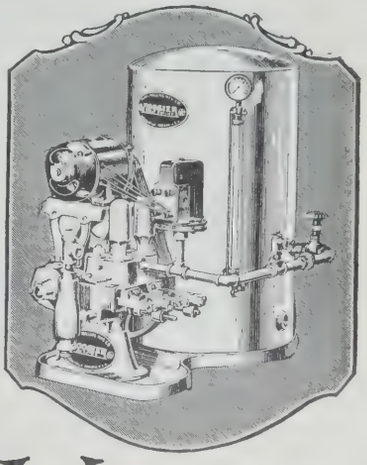

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There is a Hoosier to fit YOUR individual needs. This free book "How to Have Running Water" will show you how to select it. Write today. No obligation whatever. Hoosier Service is sold by good merchants everywhere.

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THOSE "cooking hours" will become easier and more pleasant for you, or your maid, with this convenient, attractive THATCHER "Twin-Fire" Range.

It burns either coal or gas or both; can be furnished with or without combination coal and gas water-back—and has a sanitary porcelain enamel finish that requires no labor to keep clean and bright—merely a little wiping with a damp cloth.

You will also find its spacious baking and broiling ovens, its handy "pull-down broiler rack", and many other special improvements and labor-saving conveniences a great comfort—and its economy in operation a great satisfaction.

Consult your local dealer or write today for further information on the Thatcher "Twin-Fire" Range.

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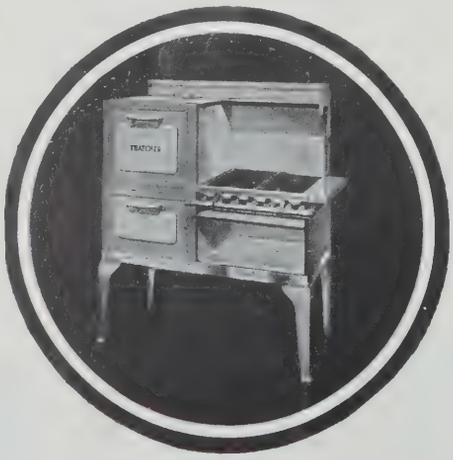

The Thatcher Gas Range

This range is designed in accordance with the specifications of the American Gas Association.

It has extra large ovens, quick action burners, and large cooking top.

The flush doors and full porcelain enamel finish make it very easy to clean.

(Continued from page 566)

BEARDED IRIS.—The tall Bearded Irises, if not planted in June, the writer finds, are better delayed until August, giving them a July rest. The percentage to bloom seems higher than when planted in July. Plant with the rhizome or rootstock half in and half out of the soil in horizontal position. Be careful to pack the soil solidly about the roots. Water well when planting and often in dry weather. The main task is to encourage enough root growth to prevent being heaved by winter thawing and freezing. Give the soil lime or gypsum, no manure.

ORIENTAL POPPY.—To propagate any desired type of Oriental Poppy, dig down as deeply as possible to get the long tap root. Cut it into two inch sections, leaving four for the crown. Cut these sections square across the top and slantingly across the bottom so that they will be planted right side up. Plant erect and half an inch deep either where they are to grow or in pots. Keep moist until new growth starts. It is easier to regulate conditions in pots and they can be turned out easily without disturbing the roots. Do not move otherwise when in growth. They do not come true from seed, and root cuttings are the only means of increasing stock of a desired variety.

An ample supply of water, cultivation to maintain dust mulches, or mulches of lawn rakings are the main factors in garden upkeep this month. Above all don't let the Dahlias dry out and become woody.

In the California Garden

THE second spring in California opens in September after the early rains. The first spring marks the change from winter cold to warmth, while the second spring marks the change from drought to moisture again. The winter garden may be planned now; Roses pruned for late blooming; seed, planted and the soil prepared to receive the early rains. See that the soil has the right proportions of clay, sand and loam and fertilize well.

Make cuttings of Roses now by taking slips from half-ripe wood, from four to six inches long. Cut just below a joint or bud, but keep some of the leaves on for breathing. Plant the cuttings with three buds below the ground and two above, and put them in boxes filled with sandy loam. Protect from the sun and give water regularly.

The Chrysanthemum buds should be thinned out, leaving the terminal bud only, in a group of three. If large blossoms are wanted, allow only one bud to a long stem, but if quantity and color effect be wanted rather than single specimens, several side branches may be left. If there are any plant lice, use tobacco water or tobacco dust, and if there are any green diabroticas, which eat the young buds, they are best caught in the early morning and dropped in a jar of gasoline or kerosene.

The Dahlias must be well nourished and cared for, cutting back those that have already bloomed so as to start new growth for later blossoms. When cutting the flowers, put the stems in boiling water for a few minutes then in cold water and they will keep fresh longer. The same method may be applied to Hydrangeas.

Cineraria seeds may be sown for winter blooming; also Sweet Alyssum, Chinese Primrose, and Butterfly Plant (Schizanthus). The Sweet Alyssum may be sown in the open ground, but the fine Cineraria should be mixed with sand and sown in boxes covered with cotton cloth and sprinkled through the cloth.

Hardy perennials may be sown now in boxes ready for transplanting as soon as the rains come; in the hot interior regions the seedlings will need protection from the sun. Sow Pansies, Violas, Forget-me-nots, and Delphinium for spring blooming; also the biennial Canterbury-bells, and Foxgloves, which will bloom sooner than when sown in the spring. Mignonette may still be sown in the open ground, and the seeds will germinate better if soaked overnight.—E. U.

For the Far South

"TAKE a vacation and give your garden one," is the advice given to beginners in gardening in the far South by one local horticulturist. This, indeed, is what most of us do. It is too hot for hard work, and there are not many seeds that may be planted in the flower garden in August, though the vegetable gardener begins to put in his first crop of winter greens this month.

But the real garden lover rises early and begins in the cool of the morning to prepare the beds for fall planting, both of seeds and of bulbs—if there is not too much rain, or too little, for the soil to be worked.

Annuals that have passed their prime may be pulled up; and of course all blossoms except those that are saved for seed should be clipped off. Stalks and leaves, with clippings from the lawn, should be piled in a "humus heap." Then turn up the beds with spade or fork, and a week

(Continued on page 572)

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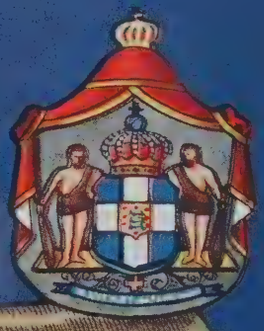
Melachrino cigarettes are made of the very finest Turkish. No tobacco in the world equals Turkish in delicacy of flavor, aromatic qualities, smoothness and richness.



Καπνίζω με προτίμηση τα τσιγάρα Μελαχρινό, τα οποία προσφέρουν την μεγαλυτέραν ευχαρίστησιν εις τους καπνιστάς τους οποίους γνωρίζουν το καλόν καπνόν.

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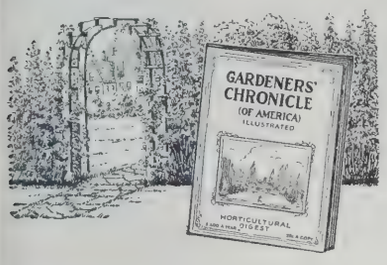

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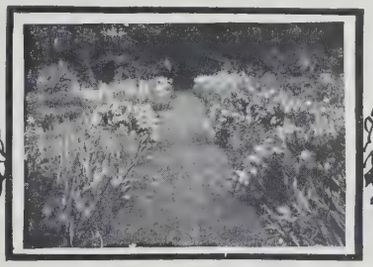

A SUGGESTION—

Perhaps you were among the many who because of the unusual lateness of the season, were unable to do their garden planting this Spring.

If so, we make this suggestion:

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Write to-day for our free fall price list, or send us a list of your requirements on which we will be very glad to quote prices.

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MIDSUMMER brings its "lull" in the garden. The glamorous riot of the Spring posies has calmed down to the orderly procession of the regular stand-bys and among them none rank higher than

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Special Offer For early September shipment, so they can get well rooted before winter, thirty strong, thrifty plants of Phlox for **$5.00** prepaid to you. Five plants each of the following six striking kinds:

Bridesmaid, white, crimson eye; B. Compte, Amaranth-red; Mrs. Jenkins, tall pure white; R. P. Struthers, rose-carmine, red eye; Siebold, orange-scarlet with crimson center; Widar, lavender-blue.

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(*Continued from page 568*)

later, turn the soil again, breaking the clods with a hoe to give the hot August sun a chance to kill the germs and weed seeds, the insect larvæ, the moulds and fungus growths, and to sweeten the soil as only sunlight can. Now is the time to test your soil and change it, if necessary, to suit the plants you wish to grow, so as to have an acid soil for those which (like Azaleas, Ferns, Oxalis, and woods-plants generally), thrive in a soil rich in humus, and giving an acid re-action when tested with litmus-paper; while ensuring a good growth for Roses, Larkspurs, and most of the garden flowers by sweetening the soil with lime, crushed stone or other things producing an alkaline re-action.

It is too early in this latitude to plant the bulbs that are planted in August farther North, but the ground may be prepared for them, so that they will not come in contact with fresh fertilizer when they are planted. It is also too early for planting seeds of plants which dislike hot weather, with the single exception of Sweet-peas, which may be planted now for Christmas blooming, as they will not come up right away. The early varieties should be chosen for this purpose and some may be blooming by Thanksgiving if put in this month.

Remembering that there is still at least two months and probably three of mild weather ahead, in a normal year, the Southern gardener can sow a number of spring annuals again in August, if he selects those that do not mind the heat—Balsams, Cockscomb, Gomphrena, Torenia, and Zinnia being the stand-bys for this latitude. It is rather early for Pansies, Forget-Me-Nots, or English Daisies; but Phlox, Petunias, Sweet Alyssum, Verbenas, Calendulas, and Pinks will generally do well, especially if sown in seed-boxes and protected from heavy rains.

Transplanting of perennials and other plants generally advised in Northern magazines may be done only if it is a wet season, with daily rains. In such years almost anything may be successfully transplanted in midsummer. On the other hand, if it is a dry season, with scorching winds, it is unwise to move anything.—E. H.

So You're Getting an Oil Burner

(*Continued from page 550*)

ture falls below a determined point, and goes out completely—no flame at all—at a fixed degree of heat.

The "continuous" burner is lighted by hand, and is adjusted to burn at the lowest consistent flame. It is then turned up to the highest point where good combustion can be obtained. The thermostat in this case operates a motor that turns the burner up or down between these limits as the case may be, but it is always "on." It is not even necessary to have a thermostat for this type of burner, as it may be controlled entirely by hand, either at the burner, or through a system of chains or other device, from the living floor. Thousands of such burners have been in operation for periods upwards of fifteen years, and the owners are fully satisfied.

(5) *Doesn't this extreme heat damage a boiler or furnace?*

No, it does not seem to do so, either in the case of domestic boilers, or in the high-pressure boilers in the navy vessels that burn oil. Remember that, in the case of a water or steam boiler, no part of the metal gets much hotter than the temperature of the water or steam, and this is either less than 180° or, in the case of steam, close to 212°. The business of the boiler is to *transfer* the heat generated by combustion into the water in the boiler, and if it does this rapidly enough, the boiler walls remain at comparatively low temperatures.

(6) *Is an oil burner satisfactory in a warm air furnace?*

There are two things to consider: first, the tightness of the furnace joints; and, second, the degree to which any noise from the operation of the burner may be transmitted through the house. The average warm air furnace of the past was composed of two or more cast-iron elements forming the combustion chamber, cemented together during the process of erection. If this cement drops out, there may be such a hole left that the products of combustion will escape, especially when the fire is throttled down by the damper, into the warm air space surrounding the combustion chamber, and be conveyed through the house. Every hole becomes a channel of escape for the gases. The new furnaces that are being placed upon the market in response to the demand created by the popularizing of the oil burner, are usually of sheet steel, with electrically or otherwise welded seams, so that there is no chance for the escape of gas except to the stack.

The question of noise cannot be answered on paper. A warm air furnace might be likened to a big bass drum, and if the period of vibration of the oil burner finds a harmonious period in the furnace, it is liable to lead to trouble. It might be perfectly fair to buy an oil burner for a warm air furnace with the distinct proviso that it will be removed without cost to the purchaser if the noise is found to be objectionable. This can be determined very quickly, without going to the trouble of installing a fuel tank, as the burner can be operated for an hour or so from a temporary tank. The adaptability of the furnace to the use of oil fuel must also be considered, but this is a technical question, and depends upon the ability of the furnace to transfer the heat developed from the burning of the oil to the air passing through its jacket. A reputable oil burner manufacturer, will refuse to sell a burner for a warm air furnace unless there is every reasonable expectancy that it will operate with entire satisfaction.

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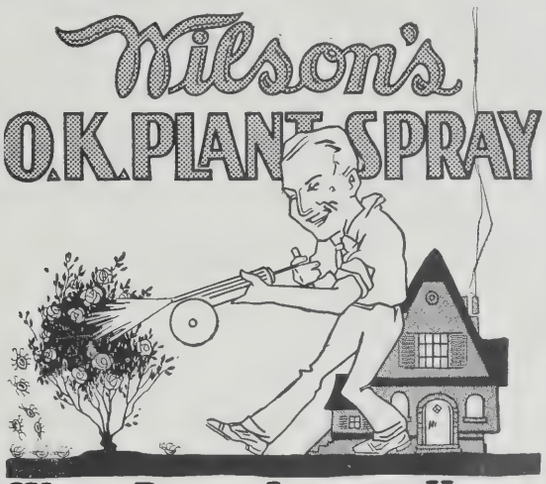

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Doubleday, Page & Company

Converting Old Homes

(Continued from page 537)

them. There should be a bowl underneath to catch the overflow and in this may be goldfish and water plants.

An indispensable part of the furnishing should be a good-sized table for meals, round or of the refectory order, whichever fits the needs of the family and the shape of the arbor or terrace best. The vines on an arbor provide shade enough, and the comfort and pleasure of eating out-of-doors in warm weather has only to be tried to be adopted. If the flagged pavement seems too hard and damp, rush mats can be laid over it. These do not spoil from dampness and may be of decorative value since many of them have colored borders.

If one buys an old house without adjacent arbor or convenient shade trees and no veranda exists, the simplest arrangement to obtain shade for eating or lazing is to run out colored awnings from the side of the house one wishes to reserve for one's meals and out-of-door life. They can be rolled up if they shade the windows too much on dark days, yet add a fine bit of color when unrolled. Many of the old houses I have in mind have double verandas, and in these cases the upper part makes a fine sleeping porch, while the lower, if wide enough, becomes an out-of-door dining room. Thus in one way or another, almost any old house one buys offers easy, inexpensive ways to eat and live out-of-doors. These modern out-of-door living rooms take the place of the Spanish patios.

Having arranged one's open-air eating and living space from both a decorative and practical viewpoint one turns to the question of flower and vegetable gardens. Nearly all old houses have at some time had a row of old-fashioned perennials growing under their windows and usually bordering a paved walk to the house. Any remnants of this sort can be separated and revived. There always seems more of a thrill in bringing the relics of some flower owner's planting back to life than in starting entirely afresh with plants bought at a nursery. Hollyhocks against the wall of an old country house are as familiar as robins in spring, but the charm of them is perennial (see page 536) and the fact that they resow themselves and go on year after year is an added advantage. In front of the Hollyhocks a row of shorter perennials may be introduced and if one has a brick, gravel or flagged walk to the house, a mixture of groups of perennials, graduated in height and planned to give successive blooming, may be established.

In buying an old house one always hopes for a view of some sort and this should be framed if possible by trees, between which the view (even if a modest one) becomes a vista. The middle-distance of this vista offers an opportunity for some special feature; a seat, sundial, pool, or fountain. When there is no special view to offer, the vista may be a shorter and more artificial one, ending in a walled or hedged-in flower garden (see page 537) laid out with some formality, entered by a gate and terminating in a seat, rose arbor, or some other special feature. This walled garden may include vegetables as well as flowers, if one's space is limited, and the part given over to the vegetables can be laid out in plots, so that the effect is quite orderly and decorative. There may even be borders of flowers around the vegetables.

When one's vista ends in a fine view, the flower garden may be arranged at one side and the vegetable garden at the other. One must be guided not only by the original planting, but by the lay of the land and the sort of garden one wishes to specialize in. If the newly found house is built on uneven, rocky ground with woods near by, somewhat naturalistic planting, with use of wild flowers and rock plants, is best, and this, by the way, is one of the most fascinating of all gardens to a nature lover.

If one is fortunate enough to buy an old house on land containing a pond or brook there are endless possibilities of developing water gardens and collecting groups of native and foreign marsh and water plants.

Old stone houses are softened and made more colorful by the addition of vines. Climbing Roses, Trumpet-vine, Wisteria, Clematis, and Bittersweet are among the best of the flowering ones, and European Ivy, Japanese Ivy, and Virginia-creeper are among the non-flowering or rather inconspicuous flowering ones, that cling well on stone houses. European Ivy has the advantage of being evergreen. Grape-vines stand in a class by themselves as a decoration for the walls of a house, when trained on well-designed trellises, especially when the grapes ripen; and the perfume at flowering time is of all perfume the most hauntingly beautiful. One wonders why few people in this country have discovered the picturesque value of Grape-vines.

Stone houses are usually more picturesque than wooden ones; but until vines are grown, they tend to look somber, especially when the stone is not warm in color. This somber effect can be offset by painting the sashes and shutters in a gay combination of colors and if by chance a new roof must be added, it can be of copper or colored slate. In the case of wooden houses the question of the color of the paint is all-important. For a Colonial house it is often safest to keep to the time-honored white, but the shutters can be any variety of pleasant bluish greens to offset the coldness of the white. When a wooden house is irregular, rambling, and picturesque, it is sometimes interesting to paint it a soft salmon pink or a warm yellow, the shutters and window sashes picked out in bluish green along with the doors.

EDITORS' NOTE.—This is the second part of an article on Converting Old Houses. Part I appeared in the June issue, page 341.

Beginnings of Peony Culture

(Continued from page 547)

scarce as it is beautiful; Martha Bullock, shell pink to rose pink; Philippe Rivoire, bright crimson; Elwood Pleas, light pink; Longfellow, cherry red; Splendida, flesh white to pink; Benjamin Franklin deep bright red; Primevere, creamy yellow; Mary Brand, deep red; Hesperus, a shell pink cup shaped variety; and Richard Carvel, a good red. The varieties mentioned are those which appeal most to the writer, and are not supposed to form any criterion.

Consider carefully before purchasing your Peonies. Consult your neighbors and receive pointers from them. Do not order Peonies, or any other plant for that matter, from any but reputable businessmen. Start your Peony patch with a few plants, and add to them as you go along. Eventually, you will have a garden that will be a feast to your eyes and a source of contentment to your soul. Do not worry if you fail to secure a tremendous amount of bloom in your third year; wait and see what an accumulation of blessings the fourth year will bestow.

Beauty Doctors of the Gladiolus

(Continued from page 545)

bright crimson and garnet blotch, and SUNNYMEDE, which combines the wide-open, rounded flower of the Amaryllis type with small size and a rare shade of orange coloring derived from Primulinus ancestry. Its vivid crimson blotch combines agreeably with its orange coloring. This variety has a future because of its distinctive coloring and pleasing form. Of Fischer's Primulinus hybrids, his MISS T. ROSE, a creamy yellowish pink, and ETHELYN, an orange yellow, are good examples of the dainty coloring which characterizes all of his varieties.

L. Merton Gage is another successful New England breeder who has worked with both the Amaryllis-flowered and Primulinus types. His TAVISTOCK is a scarlet resembling Princeps, but with as many as six blooms open at once instead of two. MAURICE FULD is a truly remarkable descendant of Princeps, notable for its monster size, taking first prize at the New England Gladiolus Show in 1924, for the largest flower in the show. It is truly a show flower. Like Princeps, it opens few flowers at once, but the one or two are of such size as to command attention. The color is rose doree, with a deep rose blotch, broadly bordered white. MARJORIE GAGE, a large-flowered pure white with scarlet blotch, is a seedling from Mrs. Frank Pendleton. Gage's most outstanding Primulinus hybrid is ALMA GLUCK, peach red with red-lined sulphur yellow throat. It is hooded, like all of the Prims, but is large, with upstanding blooms that look you in the face.

Clark W. Brown, widely known for his admirable work on Gladiolus nomenclature, has also produced a number of new sorts, among which the most popular is TIFFANY, a pure white, wide-open Primulinus derivative, with graceful carriage and slightly ruffled petals of excellent substance. It has great promise as a moderate-sized white for general use. MELBA, creamy salmon tinted orange yellow in the throat, is also an attractive sort.

Many other New Englanders have been and are producing fine new Gladiolus seedlings. Spencer, Meader, Rowe, and several more have each introduced one or more new varieties of high merit. Developed in a region of moist, equable summers, favorable alike for flowers and people, these New England productions cannot invariably be recommended for culture in the Middle West without very thorough preliminary trial. Some of them will stand the dry, hot summers of the corn belt, but they do not require any such qualifications to make good both in New England and on the seacoasts. One must choose one's assortment of varieties with some thought to the climate in which they will be grown, if the very best performances are to be expected.

The inland Gladiolus hybridizers have in general developed the most rugged and thoroughly dependable strains, because they have to be resistant to dry heat in order to make good as seedlings there. This does not mean that they will make as handsome a display of flowers in more favored localities as will the sorts developed in milder regions. Most of them will not. But their sturdiness is a strong recommendation for them, specially to the beginner in gladiolus culture.

EDITORS' NOTE.—The achievement of Gladiolus Pioneers of the Middle West and Pacific Coast will be discussed in later issues. The first instalment of this series, Hybridizers of the Continent and of Australia, may be found on page 353 of June GARDEN & HOME BUILDER.

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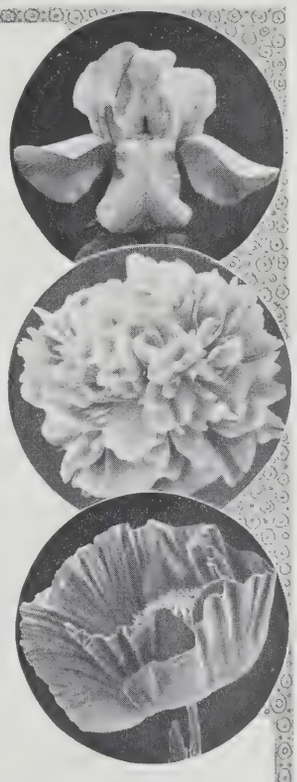

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Secret Diaries of Our Grandmothers

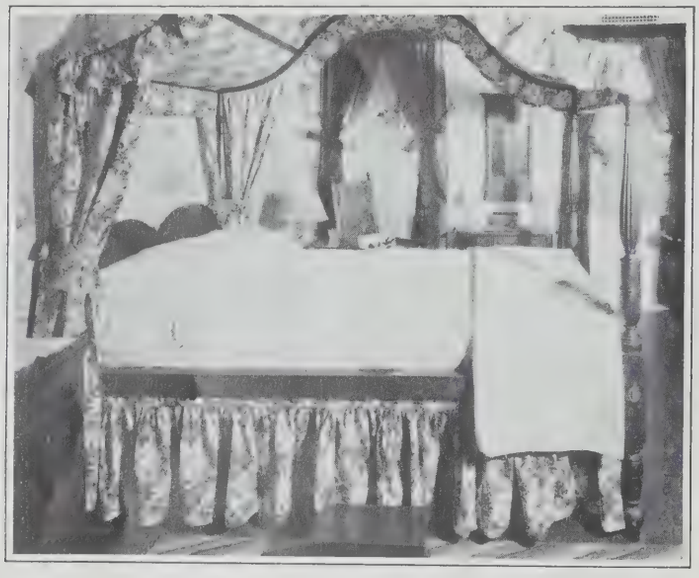
(Continued from page 543)

hand, and resting it on her knee, drew a tuft of wool across it several times, until the fibres were brushed parallel by all these 'tummings.' Then by a deft and catchy motion the wool was rolled or carded into small, fleecy rolls which were then ready for spinning."

The spinning was a task that called for great skill and stamina. With her right hand the spinner had to keep the wheel turning, while with her left she fed the carded wool to the spindle. All the time she had to step quickly forward and back, holding aloft the wool until it was twisted to just the right thickness, then darting forward so it could wind up on the spindle. An active spinner could spin six skeins in a day. It is estimated that in order to do that she walked fully twenty miles in her forward and backward movements. When all of these tasks were done, and sufficient wool spun, the housewife was ready to weave. She was now ready to turn this highly colored thread into beautiful patterns.

As to where these patterns came from, that's another story. Mrs. Obenchain throws light upon that matter. She tells us that just as certain folk stories and myths were common to all literature, so certain forms of beauty are common to all art, and are to be found drifting from one country to another, seeking expression in clay or marble or woven threads. The swastika of the Hindoos, the scrolls and frets of the Greeks and Romans, the straight lines of the Scandinavian or the Navajo, all are art devices that are found the world over, and nowhere in greater profusion than in our coverlets.

"I look at 'Single Chariot Wheels,'" says Mrs. Obenchain, "and see first the circular figures that represent wheels. Then I catch sight of a straight line; I follow it up; instantly the chariot wheels disappear and I see only diagonal lines meeting, crossing and forming a net-work of beautiful squares, four small squares making a large square as in patchwork.



A variation of the old "Snow-Ball" pattern is this hand-woven modern quilt in double weave

"I study 'The Cross,' and at first it seems only a collection of squares, with the sunburst pattern in some of them, then the cross reappears, and longer study reveals the beautiful octagonal figure found in 'Lover's Knot.' This is very elusive. I find it, then lose it, and find it again, only to have it disappear before the 'cross' or the 'sunrise.' 'Missouri Trouble' is as beautiful as a stained glass window, and 'Sunrise on the Walls of Troy' is a Greek poem of form and color.

"It is probable that designs showing heraldic devices are of English origin. 'Double Chariot Wheels' undoubtedly is, for it is also called 'Church Windows' from its resemblance to a rose window in an English cathedral. But whoever tries to trace heraldic design to its ultimate source will find himself on a long journey whose end lies in prehistoric darkness.

"Some of the designs are modern and purely American. 'Federal City,' for instance, was an attempt to represent the squares and avenues of the national capital. Sometimes an old design is slightly modified and renamed: 'Lee's Surrender' is said to be a modification of the older design, 'Braddock's Defeat.'"

But if we marvel at the beauty of these old-fashioned coverlets and the intricacies of design, what must be our feelings for those gifted individuals who designed these patterns or fashioned the coverlets after them. Artists, indeed, must have been the weavers and designers of those early days. Many weavers had drafts of the designs they wove; but many had nothing to guide their nimble fingers save their wonderful artistic sense and memory for design and detail.

And some of our professional weavers were geniuses. For the history of coverlet making is identical with that of almost every other article of manufacture. It began as a household art, practiced by the many, and ended as a professional activity, followed only by those who specialized therein. Gradually house-mothers ceased to weave their coverlets. Little by little weavers who had attained unusual skill were called upon by their neighbors to make coverlets. And so the craft passed from the hands of the housewife to those of the weaver. And, as so often happened in those earlier days, a craft went down from father to son. So we find there were families of weavers.

Where paper and draperies hold distinct patterns in color a tufted spread in white harmoniously completes the room picture

In my own region, central Pennsylvania, these professional weavers throve in the 'thirties and 'forties of the past century. Even to this day the names of these men are remembered, as the names of geniuses should be. Because this region was settled largely by Germans, our Pennsylvania weavers were mostly Germans. So that the treasured productions of these local masters of the art bear such names as Angstadt, Schnee, Lowmiller, Mellinger, and Ettinger. In Kentucky Sam Gamble was a famous weaver. Ernest Chapman was a noted weaver in Clark's Falls, Conn. These are but a few of the many noted commercial makers of coverlets. Some of these men had their established weaving places, where they did all their work. Others, like Gamble, were itinerant weavers, making coverlets as they went.

If we had all the coverlets that the early pioneer women wove, and could read the stories woven into them, we should have a history of early America far finer than any that has ever been written. In addition to political and social facts, we should have the human experiences that are properly associated with those facts, we should know just what life meant to those heroic women who so courageously faced and conquered a wilderness; for truly there are wonder tales written in the warp and woof of these old-fashioned coverlets.

How You May Breed a New Fruit

(Continued from page 541)

is all very well to cross fruits indiscriminately but it is much better to work upon the foundation of experience. If you hope to breed a new blue Grape do not start with two white varieties for parents or you will meet with total failure. White Grapes produce white offspring, though when a black and a white Grape are crossed all or most of the children will be black. Two black or red parents may occasionally produce white or yellow seedlings. Concord frequently produce white seedlings of which Niagara and Martha are two that have received names, and curiously enough the white offspring of Concord are usually of high quality.

It is a general rule that the factor for white or yellow is covered up by black or red or other colors. Small-fruited parents are usually reflected in small-fruited offspring. Strong or sharp flavors such as are found in the foxy Lutie Grape or the Riparia-flavored Clinton Grape also appear in high proportion. In fact, for the most part the finer and more desired characters appear least frequently, so that when excellent varieties are found to stamp their children with their own characters they are extremely valuable to the fruit breeder. Mills, a little-known Grape with a strong infusion of the European species is one of these and produces seedlings with a delicate, vinous flavor, oval berry, and crisp, meaty flesh. The Delicious Apple gives yellow flesh, mild or sweet flavor, and the characteristic oblong, crowned shape. Yellow transparent gives earliness and Lawver seedlings are late.

But not all fruits can be crossed, at least success has so far failed to attend many attempts. Varieties will cross indiscriminately within their own class but seldom outside. For example, varieties of Apples will interbreed, but they will not cross with Pears, Grapes, Cherries, Peaches, Plums. Yet some closely related classes may be crossed and made to produce some novel products. The Apricot and the Plum have given us the Plumcot, to all appearances a plum with a dash of apricot flavoring; and the characters of the Japanese and European Plums have been fused. It is even reported that the Peach and the Plum have been combined, so that as new methods are developed what appears impossible today may become commonplace tomorrow.

And so when the plum and apricot blossoms begin to unfold and the Cherries, Peaches, Pears, Apples, and Grapes follow in succession try your hand at some new combinations. You will find it an interesting hobby and who knows but what Dame Fortune herself may put the foundations under your air castles.

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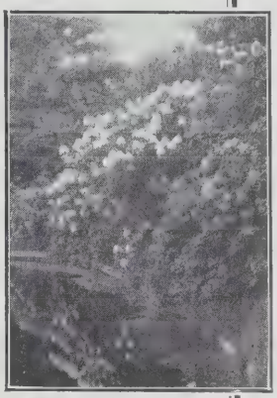

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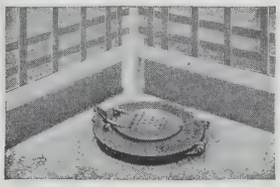

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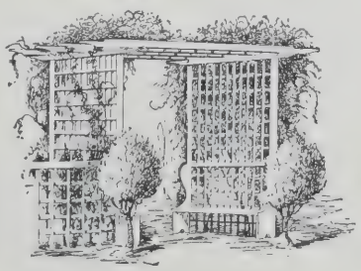

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The Romance of Rooms

(Continued from page 521)

As time passed and conditions changed the three functions of the home demanded space and were gradually given quarters of their own. The great hall was still the center for living and play. Kitchen, brew house, bakery, and storage places, with servants' quarters, occupied one wing while the family quarters occupied an opposite one. As the manor house is the basis of our present-day English cottage style, a typical plan would be worth describing. From a walled courtyard one entered through a little porch right into the end of the great hall. Wooden screens partitioned the entrance from the hall proper, forming a sort of vestibule across the whole end of it. Above the screens was the musicians' gallery. At the right was the wing for the kitchen and serving rooms which had an upper floor on a level with the gallery, and which was occupied by the serving people. A second wing contained the master's quarters, entered from the daïs and originally comprising a ground floor room which was called the cellar, used for storage. Above it was the family bedroom called the solar. Often there were windows or some disguised opening in the wall of the solar, which looked down into the hall below. This room was always interestingly decorated and furnished with the best furniture which the time allowed. The great curtained bed was its chief feature, but it contained other furniture suitable for living room use and became the master's reception room or presence-chamber where, as ceremony increased, the master was waited upon by morning callers or attended at the hour of retiring. We are surprised to see in old tapestries very ceremonious meetings portrayed in rooms where the bed is the chief feature of the furnishings. Modern duplex apartments, having as they do one fine room like the great hall and lesser ones opening from balconies on mezzanine floors, show the inspiration of this early type.

People were used to living altogether in a patriarchal sort of way in early days in every country and met the serving members of the household (often their kinsmen) upon common ground. In the 16th century Erasmus writes of the home of Sir Thomas More in this way: "More hath built neare London upon the Thames side, a commodious house, neither meane nor subject to envie, yet magnificent enough. There he converseth affably with his family, his wife, his son and daughter-in-lawe, his three daughters and their husbands with eleven grandchildren." Twenty-one persons this was, not to mention serving people, and we can imagine how crowded the house must have been even though commodious. We can also see why in our small homes we must follow the simple cottages of lesser gentry or peasants for their general lines, though we may follow the furnishings of the greater houses.

Under Elizabeth and James I the house, though even larger, yet became more compact, being planned about an interior court. The second story now becoming important, great staircases became a feature and the long gallery (such as that we know so well at Haddon Hall) developed. In this plan, no longer low and rambling, may be recognized the beginning of the trend toward classic symmetry, inspired by Roman and Renaissance models and developing into the Georgian of the 18th century which we continue to call Colonial.

As for America itself, the pioneers coming over here naturally built what they knew how to build, and made their homes as near to the type of those "back home" as they possibly could. No self-conscious striving for originality marked their efforts, and their use of materials and methods was close to tradition. Our climate, colder and more severe than that of England, however, caused the builders to cover their half-timbered construction with an extra wood sheathing, which together with the fact of plentiful lumber and scarcity of mortar gradually produced the American type of frame house. The fireplace was, as ever, the center of the house, the two-roomed house having the chimney at its center. The old English feudal or patriarchal life meant little any more, so the great hall passed out of use though the kitchen-livingroom was its successor in function. Restless as our pioneers were and not tied down to the family estate as their forebears had been, the home was neither so permanent a building, nor built upon so often by successive generations as it had been in the old country so the element of rambling, picturesque growth is usually lacking in the few examples of our 17th century architecture which remain. Even in early days labor was more costly than material in this country which explains many of our points of difference from the older countries.

Gradually the classical style fashionable under the Georges, expressed itself here in a form quite similar to work in England and though we lacked professional guidance in this scholarly style at first, we were fortunate in having certain amateur architects, such as Thomas Jefferson and others, who had traveled abroad or who had studied the new books upon architecture, to establish upon a firm footing our government architecture and the fine symmetrical mansion type with Greek or Roman columns which the 19th century pioneers of the Early Republic carried with them even as far west as Michigan. And so we have gone on, expanding and contracting, seeking now expression for prosperous conditions and now for times of economizing, now for city mansions and fine entertaining and again for country cottages and cosy retirement. Each phase has had its plan developed, from whatever source of inspiration, into a new modern American home expressing needs never before felt, using materials and workmanship in different ways, drawing upon the past, yet pointing to the future, and each filling the three functions which make a home.

Pieces of Silver

(Continued from page 549)

French gray or the well-liked butler finish fits it for use on the finest of dining tables.

In the matter of design, silver like all pieces of household equipment has always followed the styles and fashions of the time in which it was produced. This holds equally true of plated ware and to-day we can find plate in harmony with any period of room or furnishing.

So carefully is this matter of design considered that it not infrequently happens, so states one prominent silversmith, that artists and designers will work several years on one design before it is accepted. History—the arts and crafts of every nation are studied that your silver-plated coffee service may bring just the right note to your table and your candlesticks and vases be the finest products of the silversmith's art.

Plated silver has kept step too with its sterling sister in providing new accessories for the table and it is most interesting to study these

Porringer and small spoon, silver mug and bowl join the quaint flower holder in making this table a delight for any child

advances and changes in table fashions. Not only different times but different nations in the same period have had varying articles for the table. Typically American, for instance, is the round-bowled soup spoon and its smaller companion for bouillon and broth. We as a nation also serve fresh fruits for breakfast more commonly than is done abroad. Once we used teaspoons in serving these fruits; now we have specially designed orange spoons.

Ever must the service on the American table be an efficient and unobtrusive one and therefore we have cake, ice cream and pie servers, salad spoons and forks, tomato and egg servers, jelly knives, cold meat forks, etc., all rarely seen on the foreign table but adding much to the beauty of our own and for ease in serving. Each and all of these may be in flat ware with matching tea and coffee services and all the beautiful articles of hollow ware, such as vegetable and meat dishes, bowls, sauce boats, etc.

It is perhaps in the newer hollow ware that we gain the fullest realization of the care given to designing this modern silver plate. Here may we find a coffee service fashioned with all the delicacy of a Grecian urn. By its side we see one that copies the unusual beauty of Paul Revere's masterpieces. Here a console set that bespeaks Italian origin, while the graceful salad and fruit bowls, or the curve of vase or candlesticks reflect the best work of the older English artisans, with platters, trays, compotes, etc., to match. And all designed for the one purpose—to make our homes and home-life more beautiful!

Even the children have not been forgotten and there are spoons, porringers, plates and mugs of the same good shape and design as the silver for the grown-up table.

One of the most useful as well as pleasing of the newest silver ware for the table is the delicately scrolled, extension trivet on which to stand hot dishes and platters on the table. This is not merely an added luxury—it is a necessity. In fact, none of this modern plated ware need be considered a luxury, unfitted to the hard wear of everyday. The plate of to-day is practical and durable since it will not wear through. More than all, it is easily cared for if treated and washed just as solid silver is treated and no gritty or acid preparations used for polishing. With even a little care, plated ware will not only retain its original beauty but take on a subtly lovely finish of its own that seems to hold reflections of merry dinners, luncheons and afternoon teas and of the joy of the intimate home-table where in every case it was the finishing touch.

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No. 352 Roman Bench—Metal parts Swedish iron or gold plated with café au lait braces. Upholstery Italian red mohair. Total length 32 inches, width 15½″. Seat is 22 inches long, 18 inches high.

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Unusual Shrubs of Easy Growth

THIS is not the planting season for trees and shrubs; but as the gardener must always be looking ahead and planning for better things these suggestions are offered so that the reader can look around a bit and learn from what others are growing. It is impossible to get all of one's horticultural education out of a catalogue.

During a recent walk in New England woods a specimen of Tupelo was pointed out with great pride. It is a wonderful tree, yet few know it. The two- to four-inch leathery leaves are shiny like an evergreen leaf, but in the fall they turn to reds of every shade. It becomes a veritable pillar of fire among the yellowing Ashes and Hickories. In winter, stripped of its foliage the Tupelo is strikingly picturesque, for the upper branches are twiggy and frequently so crooked as to be called "kinky." Tupelos are not particular as to location as long as there is a deep rich soil. It is perfectly at home in swampy lands; likewise it thrives on stony mountain sides, wherever White Oaks, Walnuts or Wild Cherries grow. In height the Tupelo grows from 40 to 100 feet depending upon conditions. It is found growing wild from Maine to Michigan to Florida and Texas.

The Lead-plant (Amorpha canescens) is an exceedingly valuable shrub, particularly for dry sunny situations, for its long roots hunt moisture deep in the ground which enables it to endure drought. In July the one- to three-foot plants produce many spikes of beautiful blue flowers. The appearance of the plants can be greatly improved by cutting them back after flowering to produce a more compact growth and larger leaves.

There are hundreds of cottages along the coast of the northeastern states about which there is hardly a vestige of foliage of any sort. Somehow we assume that those things are not needed, or we bemoan the fact that plants will not grow there. Dig down into the sand or soil for a couple or three inches to learn if there is not some moisture there. If there is, it is a simple matter to grow things. A recent trip over a Rhode Island sand dune from which, or along which, the sand was carried by the wind like snow we were surprised to find Barberry, Willows, and even a Shad-bush growing, in addition to native Grasses.

Where such things grow it is almost a foregone conclusion that White Pine and Jack Oak will grow, also Rosa wichuraiana, Hall's Honeysuckle, Virginia Creeper, and a few other such plants. To start these plants off put a bucket of good loam about the roots of each plant. Hillsides can be prevented from washing by planting the above plants thickly having first sunk boards in edgewise, or laid logs along the slope to hold the soil. Having done this sow Rye grass and if the soil has a neutral or even slightly acid reaction, sow Sweet Clover seed. A little attention during the first growing season will bring surprising results.

One of the handsomest plants for a lawn clump is the Dwarf Buckeye. Growing three to ten feet high forming a mound broader than tall and covered in midsummer with 12- to 15-inch spikes of pure white flowers they produce an effect hard to exceed. An upright shrub at first, the lower branches with age lay on the ground and frequently root which often results in plants 20 to 30 feet in diameter. Such a specimen will carry hundreds or even thousands of blooms. Fortunately this Buckeye does not seem to be affected by that leaf blotch which disfigures our Horse Chestnuts. Neither does it require frequent cleaning up on the ground for it is anything but an untidy tree.

Here is a chance to get away from the ordinary way of doing things. Most people when they plant a conifer in the front yard want a Blue Spruce. They are pretty, and gaudy, also short-lived, and if the yard is small, soon outgrow the space assigned them.

The Korean Pine, P. koraiensis, is a slow grower, at maturity only 30 feet tall. So one in the small yard will not crowd for years, and mutilating pruning is entirely unnecessary to keep it in place. In form the outline of the tree is a broad round topped cone. The foliage appears very dense due to the leaves persisting four years. It is hardy in New England. P. parviflora is a somewhat taller growing species with silvery white foliage. Both have picturesque outlines. While these pines are not common in the American horticultural trade still a little shopping around will probably unearth them among the few nurserymen who usually keep a wide variety of plants in their nursery which they do not catalogue.

One of the most abundantly flowering shrubs or small trees we know is Xanthoceras sorbifolia. A Chinese plant discovered by the German botantist Bunge, who accompanied a Russian mission which traveled overland from St. Petersburg (now Leningrad) to Pekin some 90 years ago, but not until about 40 years later was it introduced to gardens by the French Missionary, Abbe David. It is still a rare garden plant, but should you see one of these graceful plants loaded in early summer with its 8- to 12-inch spikes of white flowers, which are marked with red streaks at the base of the petals, you sure would want it in your garden.

There is sometimes a reason for a plant being rare in cultivation. It may be we have not learned its peculiarities so do not furnish a congenial environment and condemn it before it has really had a fair trial. Perhaps that is the reason in this case.

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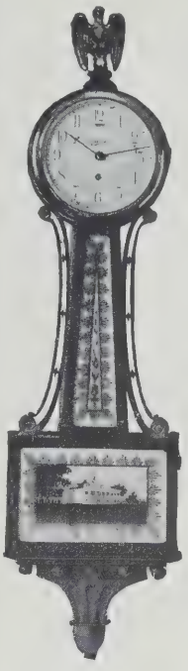

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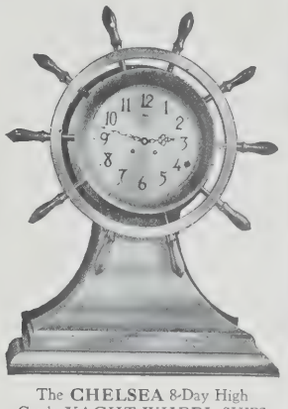

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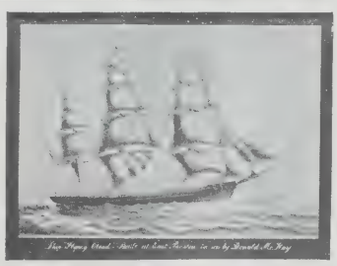

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Walls: Study the wall decoration of your room and select the coolest color in the design to accent in the new furnishings you are planning to install. This, if possible, should be blue or green, and next to these come gray and lavender. This applies of course to walls covered with wallpaper. A painted wall is usually of only one color, and in this case select a cool color that will harmonize well with it.

Curtains: Take down all the heavy draperies, and, if you wish to be very luxurious, pick out some light colored, thin material for summer curtains, such as a striped linen or chintz or a gay colored calico, in soft yellow, or rose, depending upon the color scheme of your room. Make these curtains with a shirred valance; and if you scallop the edges and bind them with black cotton bias binding they will be very unusual and decorative.

If you use yellow for these overdraperies, I have found that glass curtains of pale green tarleton do wonders to soften the bright sunlight, and yet allow all the air to enter. They also have the advantage of being very sheer and do not obstruct the lovely summer view, provided you are lucky enough to have one. In the same way, if your overcur-

(Continued on page 583)

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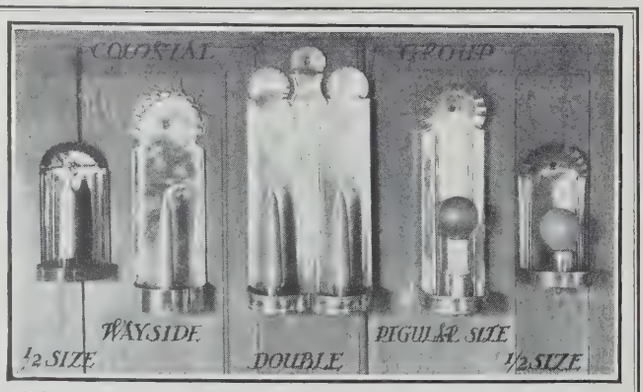

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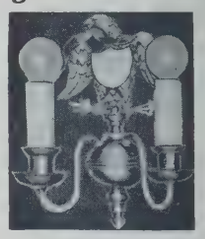

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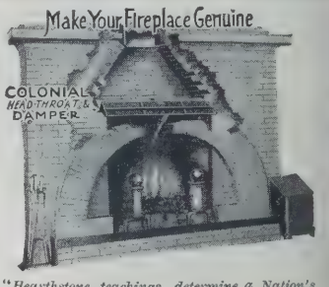

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(Continued from page 582)

tains are rose and gray, a soft French blue tarleton will have the same effect and be more pleasing with that color scheme.

Floors: Heavy rugs, like heavy curtain materials, are not suitable for hot weather. Bare floors, however, are too austere, and make the room seem uninhabited and dismal. Again, the general plan of your scheme must be considered, and in many cases a plain grass rug in green or dull blue makes a charming and inexpensive floor covering for the hot weather bedroom. A room that has little design and is somewhat colonial in feeling, is often improved by one or two old fashioned rag rugs. These have bright, clear colors and give a cool summery touch. Rich colored Oriental rugs seem out of place, and, aside from any decorative argument, they become full of dust from the open windows.

Furniture: The ideal treatment for upholstered furniture is to cover it with slip covers like your summer curtain material. However, if this makes too much design, choose a plain chambray, or linen crash in one of the colors used in the curtains, or a soft neutral shade, and bind the seams with a brighter material.

Lamp shades: The gay, warm-colored lamp shade is charming during the cold weather, but now let us put them away and in their place use pale yellow or rose pleated paper shades. The lighter color makes a more delicate light, and the room seems both larger and cooler under its glow. If you need design, use pleated shades of figured glazed chintz, but in any case select the fresh, clear colors, that will diffuse the light more generally than the deeper ones and give it a lighter tone.

There is just one other point to consider in furnishing a summer bedroom. An effect of space makes a room appear cooler and more comfortable. Take out, temporarily, all the little extra tables, and a few of the unnecessary chairs; we want open floor space, a chance to breathe deeply, and these odd pieces of furniture are in the way. Leave only the necessary things, and take a lesson from the simplicity of the Japanese treatment of a room.

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Silver on the Well Set Table

THE Hearthstone is no longer only a place where the men and women of the business world bring their constructive booklets. It has become a forum as well where these craftsmen will tell of their work in their own way. This month prominent silversmiths talk about the table set with plated silver, each quoting from his own helpful pamphlet.—THE HEARTHSTONE EDITOR.

No doubt the question of how much silver your family really needs has perplexed you. To purchase more than is to be used frequently is undoubtedly an extravagance. To provide too few pieces is sure to cause annoyance and embarrassment. Of course, this question is largely individual. How many are there in the family? How many courses do you serve at the average meal? Do you entertain often and how many guests do you usually invite? Whatever the size of the family and however modest or pretentious the mode of life, having enough silverware contributes immensely to the serenity so important at meal time! The essence of good entertaining depends as much upon having the right kind of pieces as upon any other factor. (From "How Much Silverware?")

Like everything else in your house, your table silver should be an expression of your own personal taste. In making the very important decision about your silver, you will be helped by going to your jeweler or your favorite store and asking to be shown their full stock of flatware and the lovely new tea sets and silver dishes, too. It is always easy to decide just what you want after you have seen and handled a thing and been convinced of its value and beauty. Only a few fortunate mortals can discard their silver as the fancy strikes them. Most people must live with it all their lives. For this reason, it is important to choose a design of which you will not grow tired in a few years. Extreme styles may seem attractive just now; five or ten years hence you may wish you had never seen them! (From "The Smart Essentials of Gift Silver.")

The charming thing about table setting is that it is more and more coming to be a creation of one's individual taste. To-day in place of one set of rigid rules, there have grown two distinct types of usage. One is for the formal breakfast, luncheon, dinner. The other is homey and intimate, nicely ordered rather than formal, the sort of thing that makes the guest feel instantly at home. Variations of rules are permissible, but the woman of position who serves her own table follows two main principles: her table setting is planned to make the service as expeditious and unobtrusive as possible; each course has its appropriate silver.

For a luncheon the centerpiece should be an informal arrangement of flowers. Candles are never used on a luncheon table. The bread and butter plate with spreader is always used for luncheon. The butter is usually passed after the guests are seated. Bread and butter plates are always removed with the salt and pepper shakers. (From "Correct Service.")

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The most awe-inspiring ordeal to the (unaccustomed) hostess is the formal dinner. Formal entertaining augurs a certain ritual and the service must be subject to certain conventions. The decoration of the table is a matter of taste but a tablecloth of damask, embroidered linen or lace is considered better form than table mats (or doilies). There is no limit to the type of centerpiece that may be used. It may be a lovely urn, a flat silver platter of fruit, a pair of brilliant china birds or a silver basket or bowl for flowers. Tall candles in silver candlesticks, preferably of a design that matches the service, are a very important part of the dinner table decoration and the present vogue is to have them unshaded. Four silver compotes holding candy may be placed at the corners. There should be a set of peppers and salts to every two persons and small dishes for salted nuts are placed at each plate.

No matter how large a luncheon one gives, four courses with the fruit and bonbons added are quite sufficient. Silver dishes for nuts and bonbons are found on many tables and silver loving cups or bowls filled with fruit or flowers make a dignified decoration. For a buffet luncheon, the dishes, hot and cold, would be put on the sideboard with plates and glasses, silver knives, forks, and spoons arranged in groups ready for the guests to help themselves or each other. At practically all dinners now-a-days, food is served from the pantry the carving being done behind the scenes. (From "The Correctly Set Table.")

A proper equipment of flat silver is absolutely essential to the proper service of a dinner. Except in rare instances, it is customary to place on the table but three pieces of silverware on either side of the plate. The salad fork is placed on the left of the plate, the meat (dinner) fork is next and then the fish fork. A dessert size fork is usually used for the fish. If there is an entree, its fork is placed between the fish and meat forks and the salad fork is left to be brought in later. On the right of the plate and nearest to it, is placed the steel blade dinner knife, then the soup spoon and then the oyster fork or grapefruit spoon. The fork or spoon for dessert is brought in on the dessert plate. (From "Etiquette, Entertaining & Good Sense.")

At a tea, one indispensable rule is that the tea shall be made in the living room. A hot-water kettle is therefore an essential element of the tea-tray; the other being teapot, cream pitcher, lemon dish and fork, sugar bowl and, if possible, a tea caddy. Silver tea sets are always delightful and add great charm. A silver tea ball may be used in conjunction with the tea kettle.

The fundamental plan of table arrangement is the same whether the table be laid for family breakfast, a formal dinner party or an invalid's tray and even for the meal served in buffet form the plan is only slightly modified. All flat silver is placed in the order of its use starting from the outside. Knives have their sharp edge turned toward the plate. The bread and butter plate (when used) is placed on the left of the cover well forward. Salts and peppers are placed in pairs usually between two covers. The silver centerpiece for flowers should be so arranged as to permit of uninterrupted conversation across the table. Greater and yet greater simplicity seems to prevail in entertaining of every description. (Correctness is the keynote.) Dishes intended to be hot must arrive at the table hot with accompanying hot plates. Extra sauces and vegetables often cause too much delay and a silver vegetable dish with partitions will save time and steps. (From "Everyday Service & Etiquette of Entertaining.")

After the meal (dinner) black coffee is served in the living room (preferably.) The hostess with her lovely silver coffee service

(Continued on page 588)

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G. 8-26

(Continued from page 584)

pours; chocolate-covered nuts are informally passed; the men smoke. This is a leisurely ending to a happy meal whether formal or informal. In the livable living room, the open fire, the (silver) candelabra on the mantel, the flickering candles, the candy in its silver basket, the low flower bowl with its message from the outdoors give one a real idea of the personalities that live in this room. There is something about silver used in decorating that picks up and knits together the room's colors. It gives to a living room that atmosphere of quiet elegance, durability, and charm that only lovely silver can impart. (From "Silverplate and Why It is Fashionable.")

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